SHARP®

SERVICE MANUAL

SE00LC26GA500
Issued: 24th Feb. 2005

LCD COLOUR TELEVISION

PAL B/G, D/K, I / SECAM L/L' SYSTEM COLOUR TELEVISION

MODEL

LC-26GA5E E/F/I/K/RU

LC-32GA5E E/F/I/K/RU

In the interests of user safety (required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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SHARP CORPORATION

This document has been published to be used for after sales service only.

SERVICE MANUAL UPDATE LOG SHEET

Technical Report No. Technical Bulletin No.	Cause / Solution	Part No.	Page No.	Application Data /Serial No.

Use this page to keep any special servicing information as Technical Report (Bulletin), Technical Information, etc.
If only part number changes are required, just change part number directly the part number in the Parts Listing Section.
If you need more information, please refer to the Technical Report (Bulletin).

ELECTRICAL SPECIFICATIONS

Item				26″ LCD COLOUR TV, Model: LC-26GA5E	32″ LCD COLOUR TV, Model: LC-32GA5E	
LCD panel				26″ Advanced Super View & BLACK TFT LCD	32″ Advanced Super View & BLACK TFT LCD	
Number of dots				3,147,264 dots (1366 × 768 × 3 dots)		
Video Colour System				PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60		
TV Function	TV-Standard (CCIR)			B/G, I, D/K, L, L'		
	Receiving Channel	VHF/UHF		E2–E69ch, F2–F10ch, I21–I69ch, IR A–IR Jch		
		CATV		Hyper-band, S1–S41ch		
	TV-Tuning System			Auto Preset 99 ch, Auto Label, Auto Sort		
	STEREO/BILINGUAL			NICAM/A2		
FM RADIO Function	Receiving Frequency:			87.5-108 MHz		
	Receiving Channel:			1–40 CH		
Brightness				450 cd/m²		
Backlight life				60,000 hours (at Backlight Standard position)		
Viewing angles				H : 170° V : 170°		
Audio amplifier				10W × 2		
Speakers				Ø 8 cm 2pcs		
Terminals		Rear	ANTENNA IN	UHF/VHF 75 Ω Din type		
			FM Radio in	Din type		
			EXT 1	SCART (AV input/output, RGB input, TV output)		
			EXT 2	SCART (AV input/output, Y/C input, AV Link)		
			EXT 3	S-VIDEO (Y/C input), RCA pin (AV input)		
			EXT 4	RCA pin (component input)		
			PC INPUT	D-sub 15 pin (ANALOG RGB), Ø 3.5 mm Jack (Audio Input)		
			AV OUTPUT	RCA pin (Variable/Fixed)		
			Headphones	Ø 3.5mm jack (Audio output)		
OSD language				English/German/French/Italian/Spanish/Dutch/Swedish/Portuguese/Finnish/Turkish/Greek/Russian/Polish		
Power Requirement				AC 220–240 V, 50/60 Hz	AC 220–240 V, 50/60 Hz	
Power Consumption				115 W (0.95 W Standby) (Method IEC60107)	135 W (0.95 W Standby) (Method IEC60107)	
Weight				12 kg (Display only), 15 kg (Display with stand)	15.5 kg (Display only), 19.5 kg (Display with stand)	

- As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

NOTE

- Refer to inside back cover for dimensional drawings.

IMPORTANT SERVICE SAFETY PRECAUTION

Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:

WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

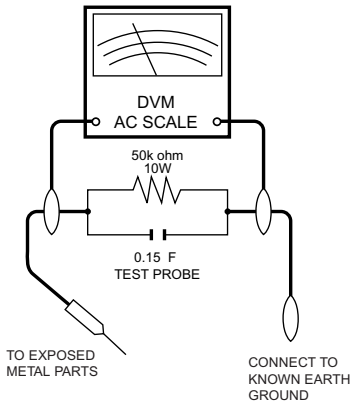
CAUTION: FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE
F701 (LC-26GA5E: 3.15A, 250V. LC-32GA5E: 4A, 250V), F702 (LC-26GA5E: 3.15A, 250V. LC-32GA5E: 4A, 250V), F703 (2A, 250V), F704 (2A, 250V), F705 (1A).

BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

Before returning the receiver to the user, perform the following safety checks:
1. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.

- Plug the AC cord directly into a 110~240 volt AC outlet, and connect the DC power cable into the receiver's DC jack. (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 50k ohm, 10 watt resistor paralleled by a 0.15μF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.
- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor.
- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)
Any reading of 0.75V peak (this corresponds to 0.5 mA. peak AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



SAFETY NOTICE

Many electrical and mechanical parts in LCD television have special safety-related characteristics.
These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.
Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the **Replacement Parts Lists and Schematic Diagrams.**
For continued protection, replacement parts must be identical to those used in the original circuit.
The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

PRECAUTIONS FOR USING LEAD-FREE SOLDER

1 Employing lead-free solder

“ALL PWB” of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.
Example:

Indicates lead-free solder of tin, silver and copper.

2 Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.
As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

3 Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.
Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required.
If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.
When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing.

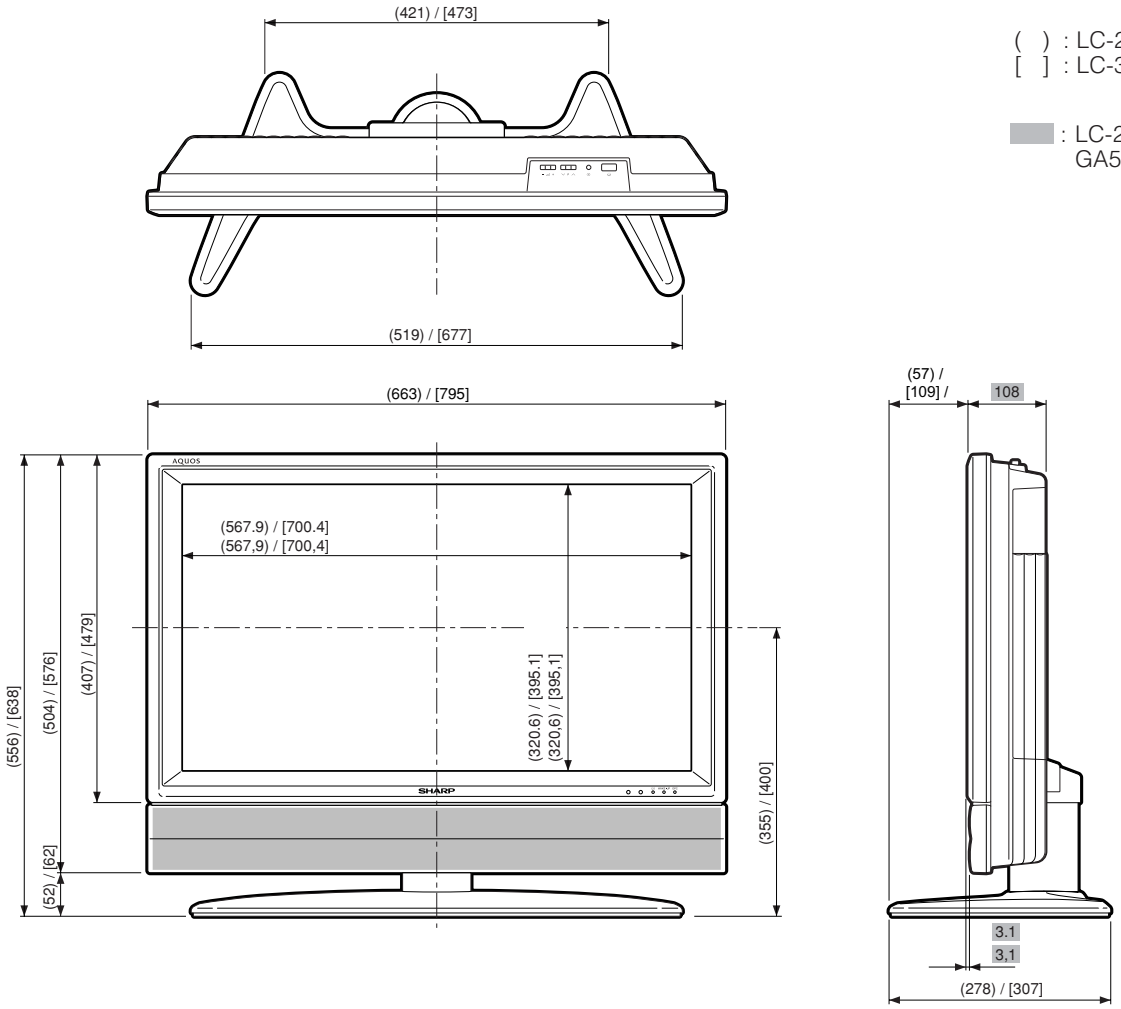
Part No.	★	Description	Code
ZHNDAi123250E	J	ϕ0.3mm 250g(1roll)	BL
ZHNDAi126500E	J	ϕ0.6mm 500g(1roll)	BK
ZHNDAi12801KE	J	ϕ1.0mm 1kg(1roll)	BM

DIMENSIONS

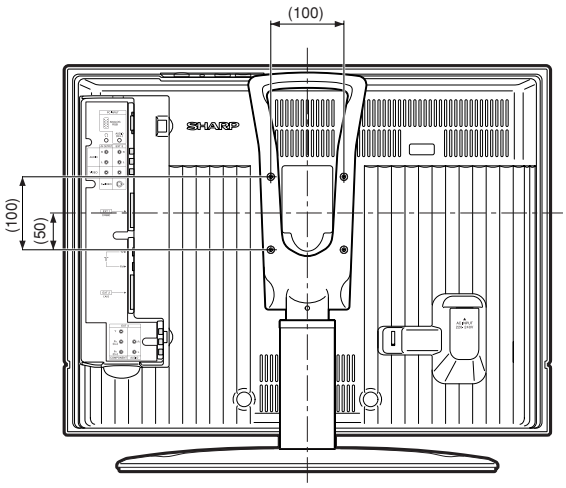
LC-26/32GA5E

( ) : LC-26GA5E
[ ] : LC-32GA5E

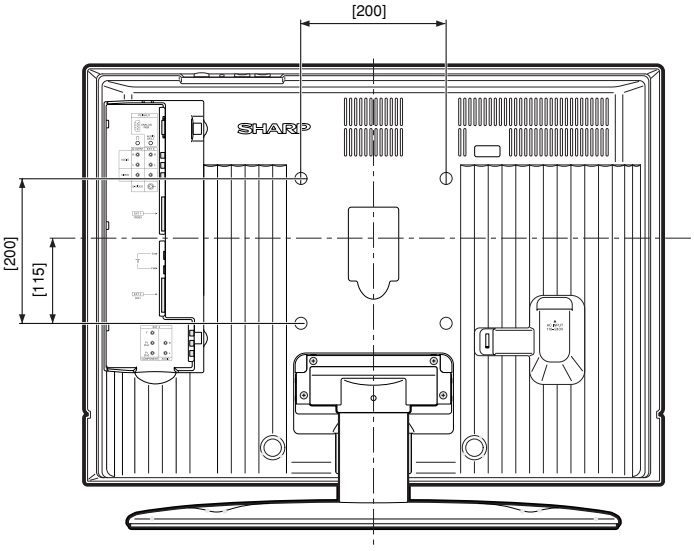
: LC-26/32 GA5E



LC-26GA5E



LC-32GA5E



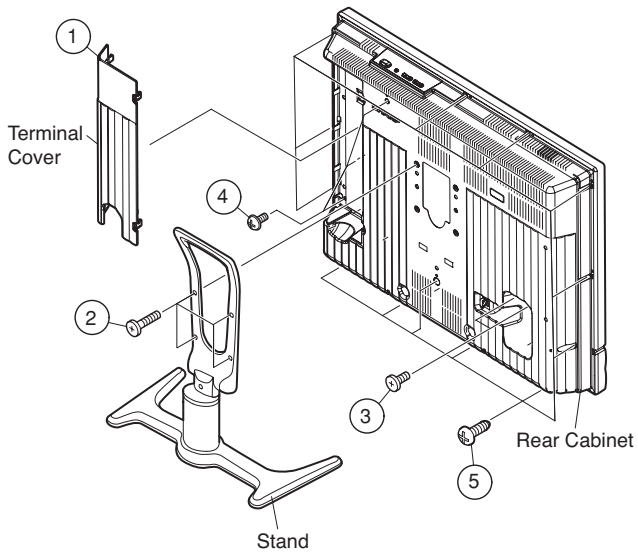
REMOVING OF MAJOR PARTS

(LC-26GA5E)

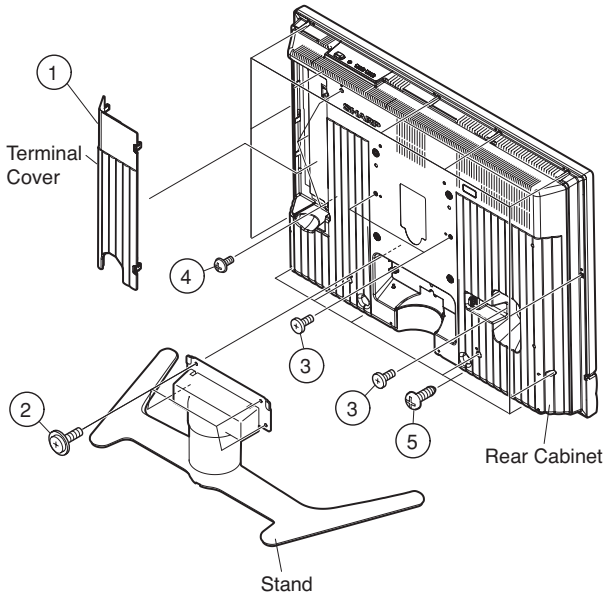
1. Remove the Terminal Cover ① .
2. Remove the 4 lock screws ② and detach the Stand.
3. Remove the 2 lock screws ③ and the 3 lock screws ④.
4. Remove the 13 lock screws ⑤ from the Rear Cabinet, and detach the Rear Cabinet.

(LC-32GA5E)

1. Remove the Terminal Cover ① .
2. Remove the 4 lock screws ② and detach the Stand.
3. Remove the 4 lock screws ③ and the 3 lock screws ④.
4. Remove the 15 lock screws ⑤ from the Rear Cabinet, and detach the Rear Cabinet.

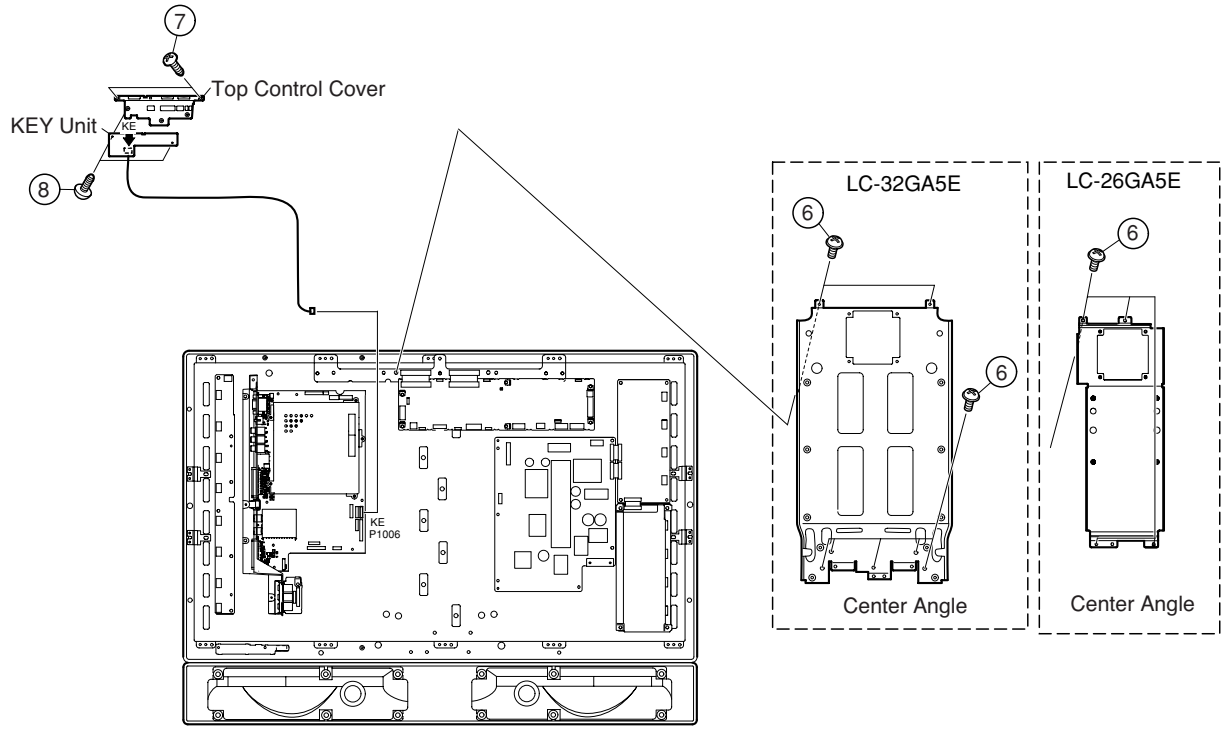


(LC-26GA5E)

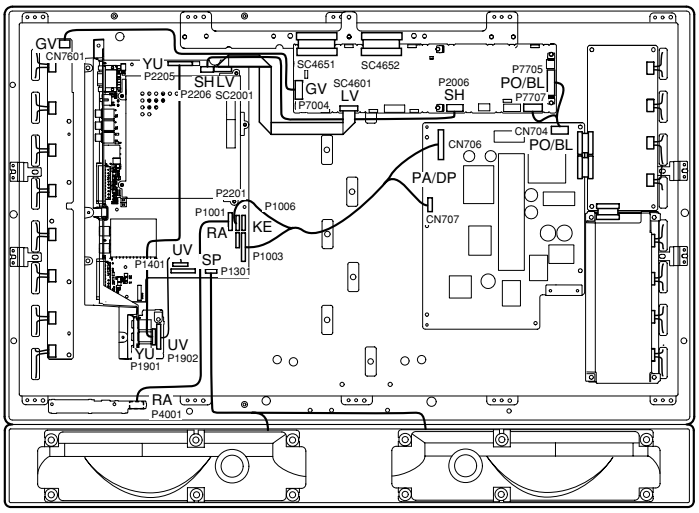


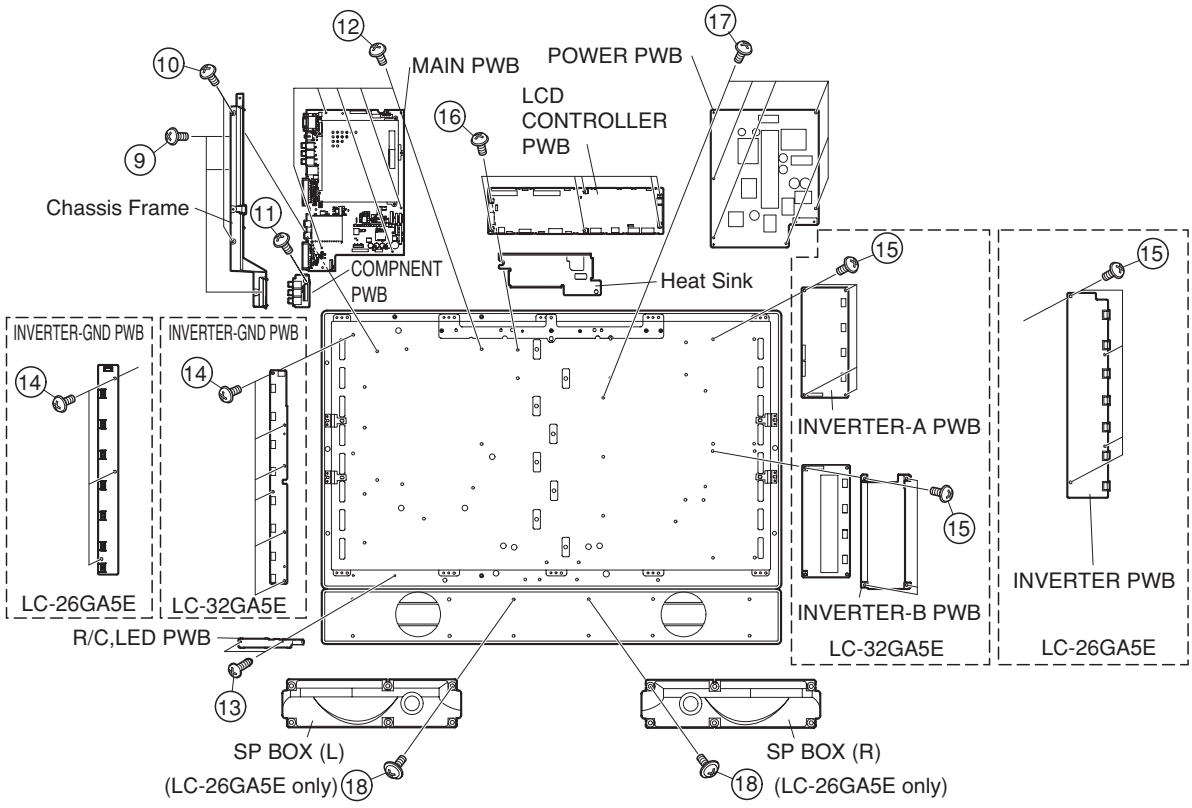
(LC-32GA5E)

5. Remove the 4 (LC-26GA5E) / 7 (LC-32GA5E) lock screws ⑥ and detach the Center Angle.
6. Remove the KEY Unit.
   6-1. Remove the 2 lock screws ⑦ from the Top Control Cover.
   6-2. Remove the 2 lock screws ⑧ from the KEY Unit.

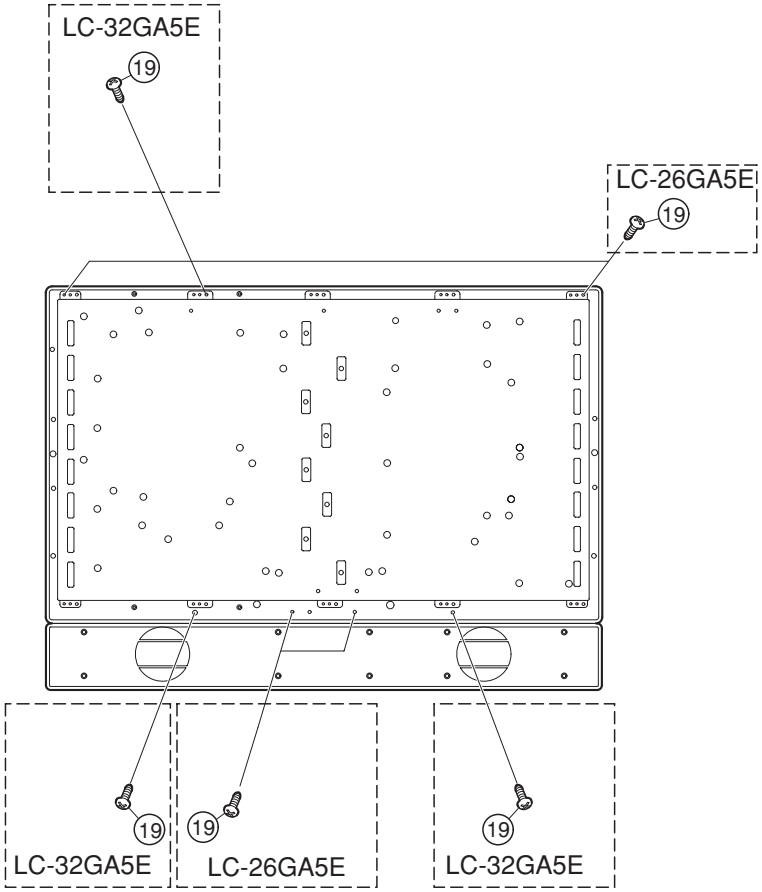


7. Disconnect all the connectors from all the PWBs.
8. Remove the MAIN and COMPONENT PWBs.
   8-1. Remove the 3 lock screws ⑨ and the 2 lock screws ⑩. Detach the Chassis Frame.
   8-2. Remove the 1 lock screw ⑪ and detach the COMPONENT PWB.
   8-3. Remove the 5 lock screws ⑫ and detach the MAIN PWB.
9. Remove the 2 lock screws ⑬ and detach the R/C,LED PWB
10. Remove the 3 (LC-26GA5E) / 6 (LC-32GA5E) lock screws ⑭ and detach the INVERTER GND PWB.
11. LC-26GA5E : Remove the 4 lock screws ⑮ and detach the INVERTER PWB.
    LC-32GA5E : Remove the 8 lock screws ⑮ and detach the INVERTER-A and INVERTER-B PWBs.
12. Remove the 6 lock screws ⑯ and detach the LCD CONTROLLER PWB and Heat Sink.
13. Remove the 6 lock screws ⑰ and detach the POWER PWB.
14. Remove the 2 lock screws ⑱ and detach theSP BOX (L) and (R). (LC-26GA5E only)



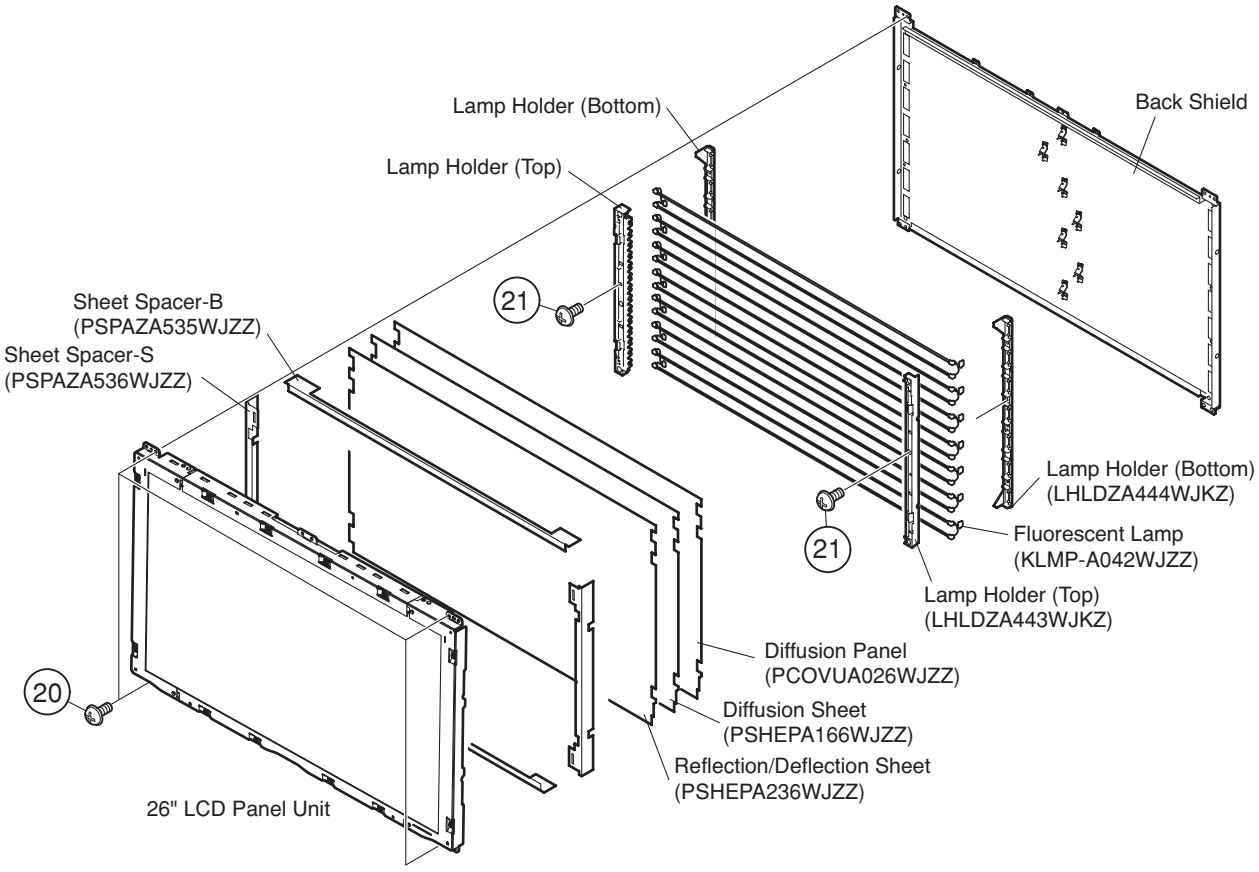


15. Remove the 4 (LC-26GA5E) / 3 (LC-32GA5E) lock screws ⑲ from the LCD panel unit ass'y, and detach the LCD panel unit ass'y.



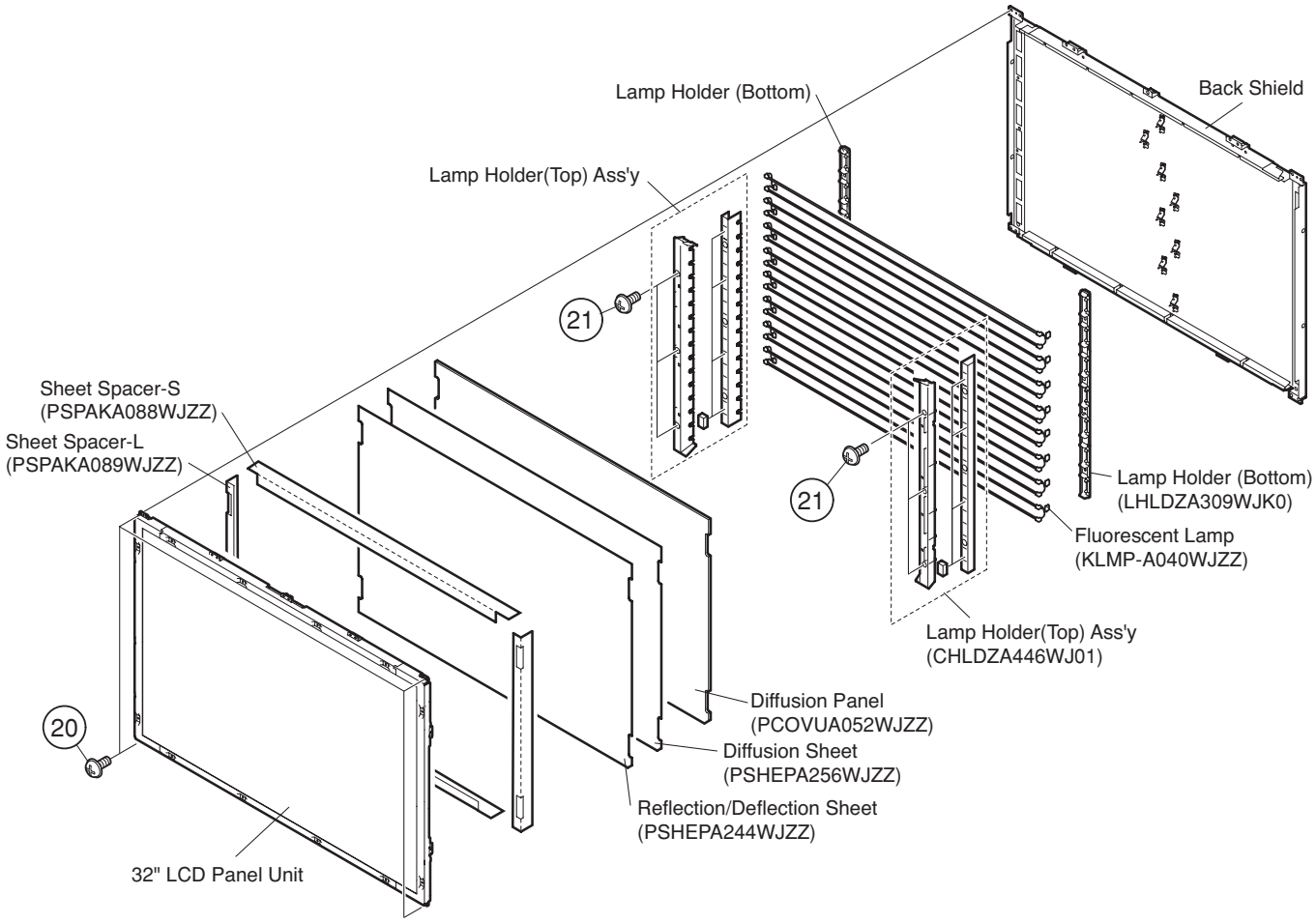
(LC-26GA5E)

16. Remove the 4 lock screws ⑳ from the 26" LCD Panel Unit, and detach the 26" LCD Panel Unit.
17. Detach the sheet spacer 1 and sheet spacer 2.
18. Detach the Diffusion and Reflection/Deflection Sheets and Diffusion Panel.
19. Remove the 6 lock screws ㉑ from the Lamp Holder (top), and detach the Lamp Holer (top).
20. Remove the Fluorescent Lamps.



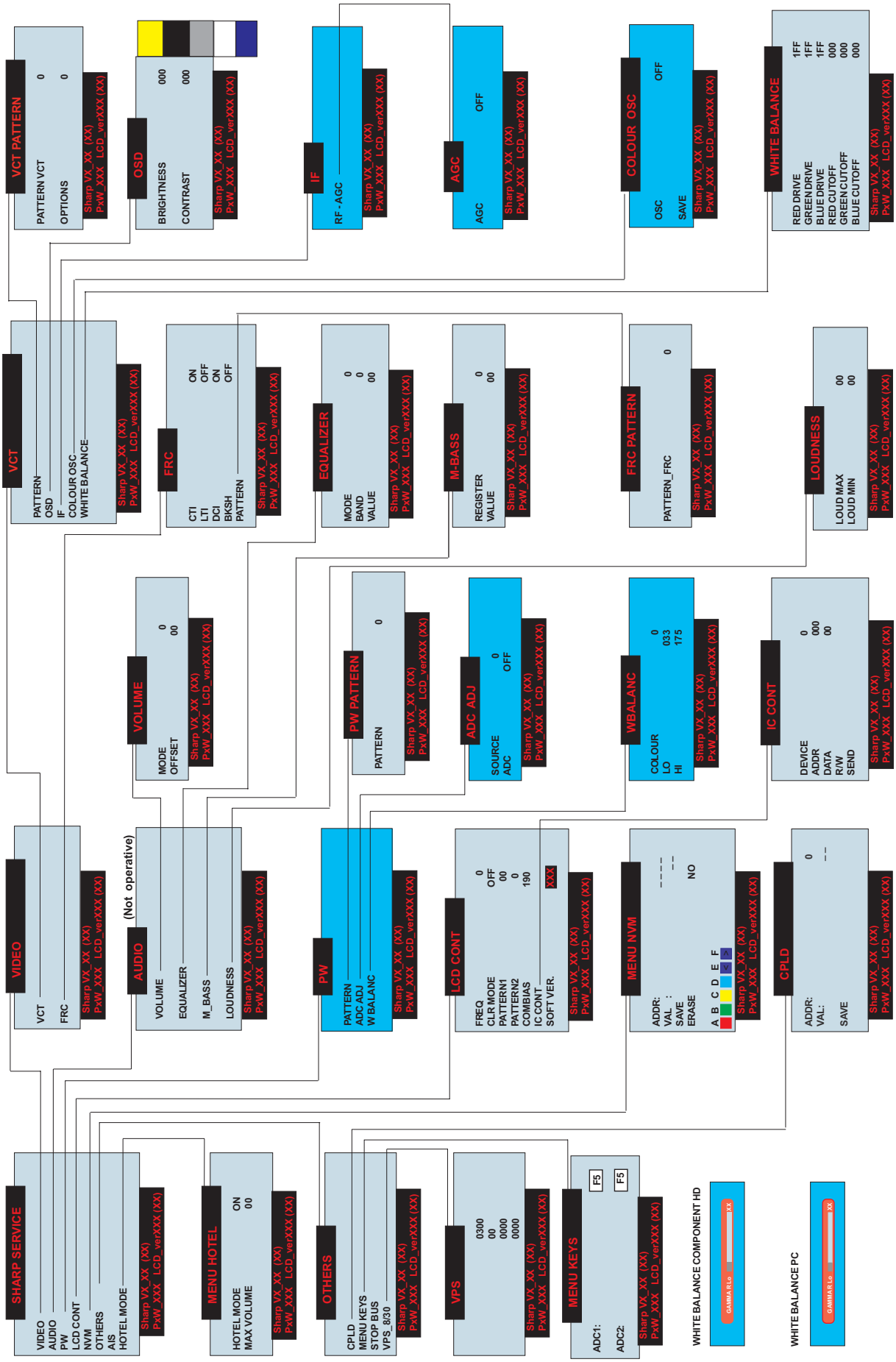
(LC-32GA5E)

16. Remove the 4 lock screws ⑳ from the 32" LCD Panel Unit, and detach the 32" LCD Panel Unit.
17. Detach the sheet spacer 1 and sheet spacer 2.
18. Detach the Diffusion and Reflection/Deflection Sheets and Diffusion Panel.
19. Remove the 6 lock screws ㉑ from the Lamp Holder (top) Ass'y, and detach the Lamp Holer (top) Ass'y.
20. Remove the Fluorescent Lamps.



SERVICE ADJUSTMENTS

Service Adjustments Menus



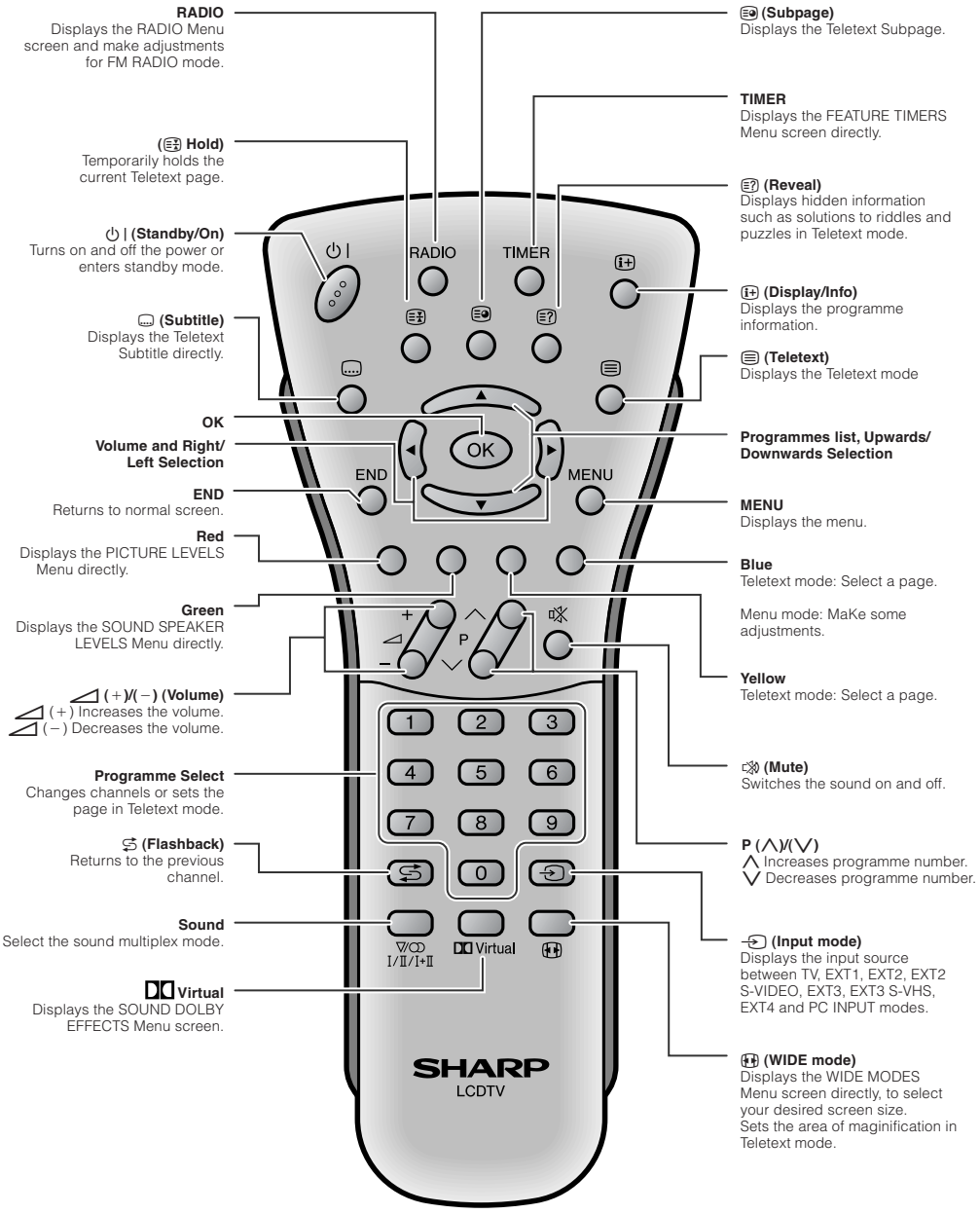
Adjustment Recommendations

The adjustment values are set to the optimum conditions at the factory before shipping. If a value should become improper or an adjustment is required due to part replacement, make an adjustment according to the following order:

1. AGC (IF Menu). Page 15.
2. Colour OSC. Page 16.
3. Common Bias. Page 19 (LCD CONT Menu - COMBIAS)
4. ADC. Page 18.
5. TV mode White Balance. Page 19 (WBALANC Menu).
6. HD Components White Balance. Page 22.
7. PC White Balance. Page 22.

NOTE: Do not change any other adjustment of those above listed, unless you have been advised to do so by a Sharp representative.

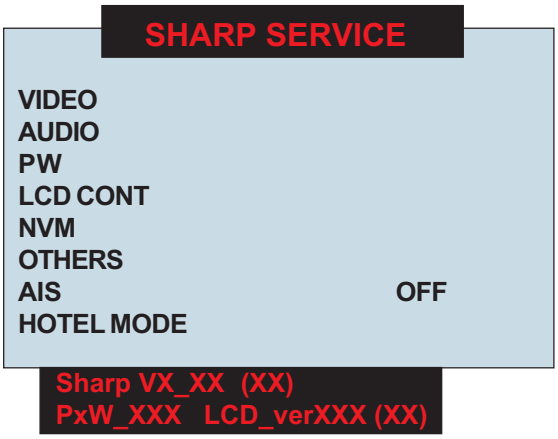
Remote Control Unit

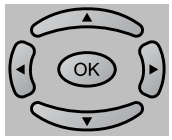


How to enter the Service Mode

The Service Mode is provided to enable the engineer to correctly set up the receiver.
Note that the value of these adjustments may vary from one receiver to another.

To enter the Service Mode, carry out the following procedure.
1. Connect a test pattern to the antenna terminal.
2. Tune the receiver to this signal.
3. Turn the receiver off using the mains switch.
4. Press volume down and channel up buttons on the top of the receiver at the same time.
5. Keeping these buttons pressed, turn the mains on.
6. Keep pressed the volume down and channel up buttons until the Service Mode On Screen Display (OSD) appears:





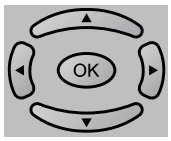
Use the up/down arrows imprinted on the ring of the R/C to select a line/term in the menu.
Confirm the selection with **OK** this will take you to the next menu.

Press END button to exit of Service Menu.

AIS: Autoinstallation.

Video Menu

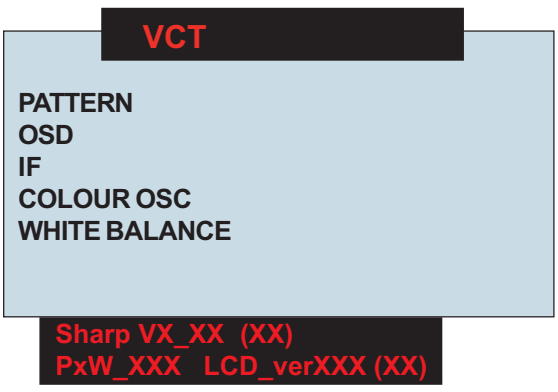
If you select the VIDEO option the next On Screen Display appear:

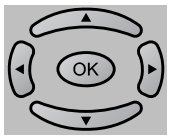


Use the up/down arrows to select a term in the menu.
Confirm the selection with **OK** this will take you to

Pressing END button the OSD returns to the previous menu.

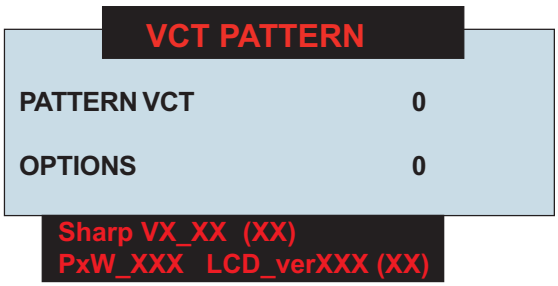
VCT Menu
To adjust parameters of VCT IC.

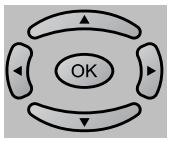




Use the up / down arrows to select a term in the menu.
Confirm the selection with **OK.**

Pressing END button the OSD returns to the previous menu.



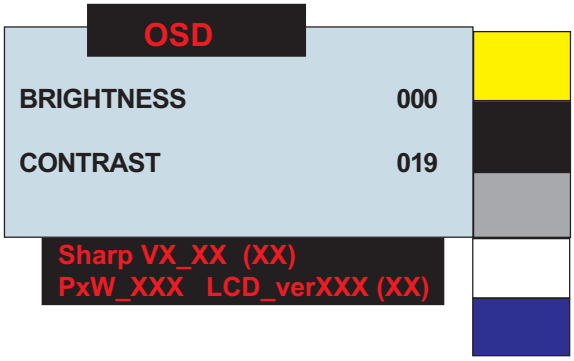


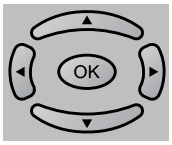
Use the up / down arrows to select a term in the menu.
Confirm the selection with **OK.**
Use the up / down arrows to change pattern.

Press END button to return to the previous menu.

PATTERN VCT: Contains internal adjusting patterns for VCT IC.
OPTIONS: Changes of colour standards for the patterns.

OSD Menu
It allows to change to the brightness and the contrast of the On Screen Display.

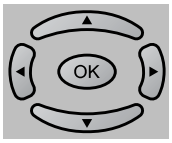




Use the up / down arrows to select a term in the menu.
Confirm the selection with **OK.**
Use the left / right arrows to change between parameters.
Use the up / down arrows to change parameters.

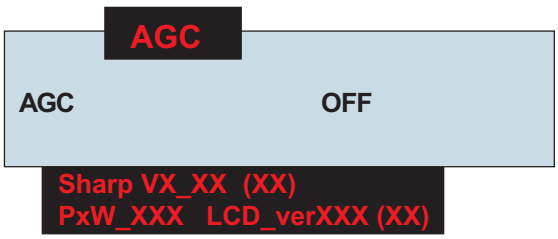
Press END button to return to the previous menu.

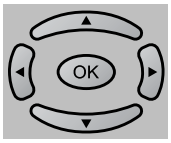
IF Menu
Intermediate frequency AGC adjustment. To adjust this item tuning the TV in follow conditions:
- Channel 12
- RF level: 60 dB/uV
- Pattern: Colour bar



Use the up / down arrows to select a term in the menu.
Confirm the selection with **OK.**

Press END button to return to the previous menu.



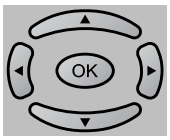


Confirm the selection with **OK.**
Use the up / down arrows to select between ON/ OFF (It are blinking).

Press END button to return to the previous menu.

AGC: is adjusting automatically when ON is selected.
The next OSD appear:

Colour OSC Menu
To adjust the colour sub-carrier with local oscillator (Adjust for PAL signals). Input 1, 2 or 3 video input terminal PAL colour bar. The Colour OSC is adjusted automatically when option ON is selected.

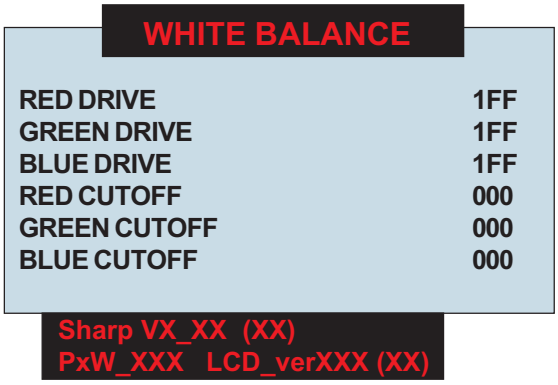


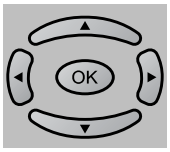
Confirm the selection with **OK.**
Use the up / down arrows to select between OFF/ ON.
When select ON, the COLOUR OSC is adjusted automatically.

Press END button to return to the previous menu.

When COLOUR OSC is adjusted the next OSD appear:

White Balance Menu
To adjust the Back Ground (BKGD) of TV.



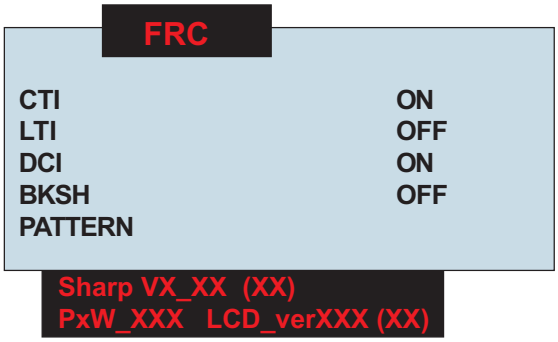


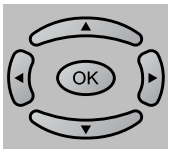
Use the up / down arrows to select a term in the menu.
Confirm the selection with **OK.**
Use the left / right arrows to move between the parameters.
Use the up / down arrows to change the values.
Confirm the selection with **OK.**

Press END button to return to the previous menu.

At TV will appear the factory adjust values.

FRC Menu
To adjust FRC IC. These parameters are adjusted and saved automatically when the ON option is selected.

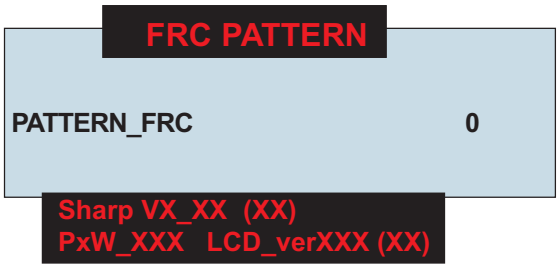


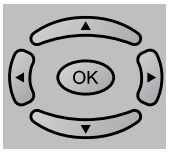


Use the up / down arrows to select a term in the menu.
Confirm the selection with **OK.**
Use the up / down arrows to change between ON / OFF options.
Confirm the selection with **OK.**

Pressing END button the OSD returns to the previous menu.

CTI: **C**hroma **T**ransient **I**mprovement
LTI: **L**uminance **T**ransient **I**mprovement
DCI: **D**ynamic **C**ontrast **I**mprovement
BKSH: **B**lack **S**tretcher
PATTERN: Contains internal adjusting patterns for FRC IC.

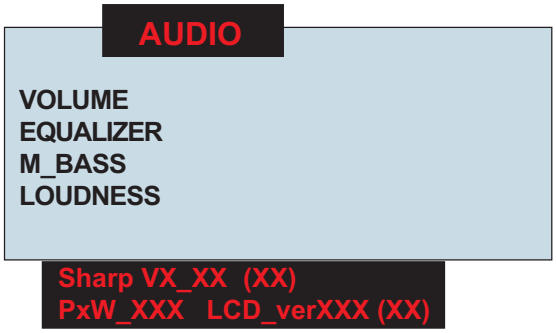


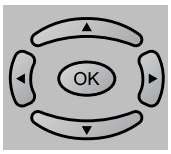


Confirm the selection with **OK.**
Using the up / down arrows appear the different patterns in order to adjust some parameter of FRC IC.

Press END button to return to the previous menu.

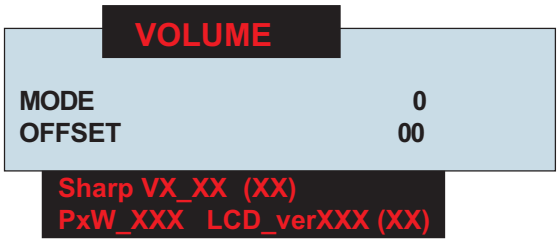
Audio Menu (Not operative)

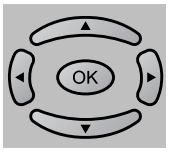




Use the up / down arrows to select a term in the menu.
Confirm the selection with **OK.**

Press END button to return to the previous menu.

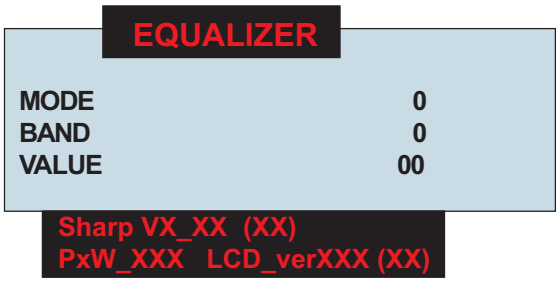


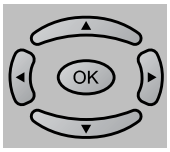


Use the up / down arrows to select a term in the menu.
Confirm the selection with **OK.**
Use the up / down arrows to change values.
Confirm the selection with **OK.**

Press END button to return to the previous menu.

MODE: MONO, STEREO, DOLBY, PANORAMA
OFFSET: Value of compensation according to mode.

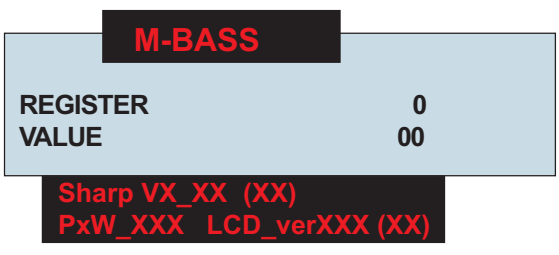


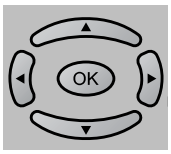


Use the up / down arrows to select a term in the menu.
Confirm the selection with **OK.**
Use the up / down arrows to change values.
Confirm the selection with **OK.**

Press END button to return to the previous menu.

MODE: Not operative.
BAND: Choose the equalizer band.
VALUE: Offset added to the center point of the selected band.

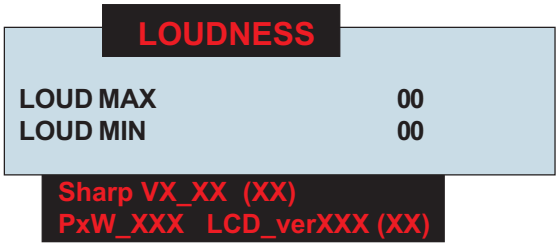




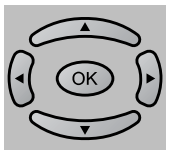
Use the up / down arrows to select a term in the menu.
Confirm the selection with **OK.**
Use the up / down arrows to change values.
Confirm the selection with **OK.**

Press END button to return to the previous menu.

Parameters to adjust M-BASS features.



Maximum and minimum values of LOUD.

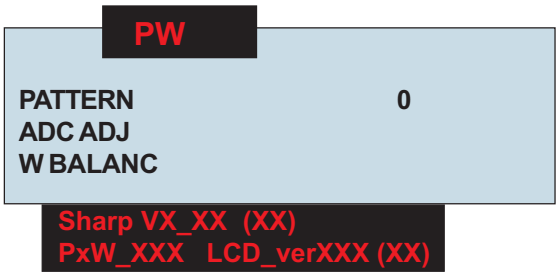


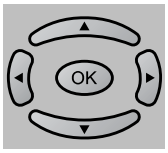
Use the up / down arrows to select a term in the menu.
Confirm the selection with **OK.**
Use the up / down arrows to change values.
Confirm the selection with **OK.**

Press END button to return to the previous menu.

PW Menu

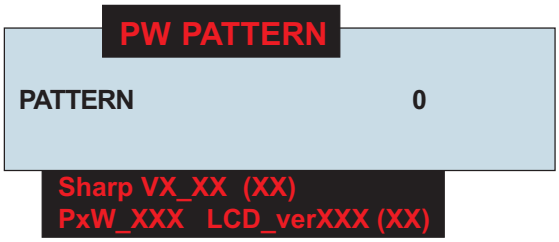
To check the PW IC.

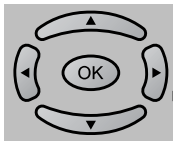




Use the up / down arrows to select a term in the menu.
Confirm the selection with **OK.**

Press END button to return to the previous menu.

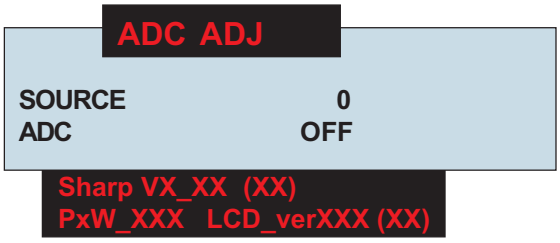


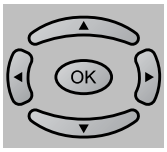


Confirm the selection with **OK.**
Using the up / down arrows appear the different patterns in order to check PW IC.

Press END button to return to the previous menu.

ADC Adjust (Operative from: VCTi 96 / PW 58 software version and upper)





Use the up / down arrows to select a term in the menu.
Confirm the selection with **OK.**
Use the up / down arrows to change between options.
Confirm the selection with **OK.**

Press END button to return to the previous menu.

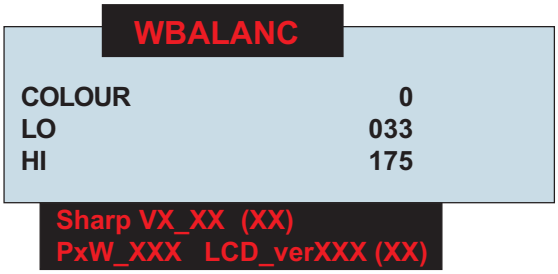
SOURCE: TV, PC, Components
ADC: is adjusting automatically when ON is selected**.**
The next OSD appear:

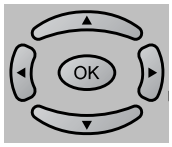
Adjustments
Source 0: Video Composite
Input video: Not necessary
Select ADC item. When confirm selection with OK , OFF is flashing. Press the up arrow one time, and the adjust made automatically.

Source 1: PC
Input PC signal.
Pattern: Grey scale, 10 steps
Format: XGA (1024 x 768 @ 60Hz).
Use the up arrow menu to select source 1. Confirm the selection with OK. Use the up arrow menu to select ADC. Confirm selection with OK, OFF is flashing. Touch the up arrow one time, and the adjust made automatically.

Source 2: Component.
Input component signal.
Pattern: Grey scale, 10 steps.
Format: 720p / 50Hz.
Use the up arrow menu to select source 2. Confirm the selection with OK. Use the up arrow menu to select ADC. Confirm the selection with OK. Off is flashing. Touch the up arrow one time, and the adjust made automatically.

WBalanc
White Balance adjust of TV mode. Before to carry out the White Balance Adjustments, it is requested to achieve the Common bias and ADC adjustments in this order.





Use the up / down arrows to select a term in the menu.
Confirm the selection with **OK.**
Use the up / down arrows to change values.
Use the left / right arrows to change between parameters.

Press END button to return to the previous menu.

LO / HI: adjusting points to 20% and 80% of colour saturation.

Adjustment
Input 1, 2 or 3 video input terminal.
Pattern: White 20%.
Brightness and contrast: Dynamic settings.

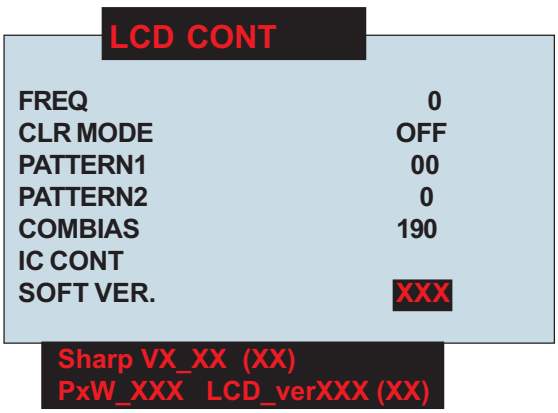
Change LO value in «COLOUR 0» (red) and «COLOUR 2» (blue) in order to become the reference value. Repeat as far as reference level is required.
Do not change green colour (1). It must be as default value.

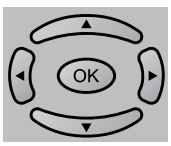
Change pattern White 80%.

Change HI value in «COLOUR 0» (red) and «COLOUR 2» (blue) in order to become the reference value. Repeat as far as reference level is required.
Do not change green colour (1). It must be as default value.

LCD Cont Menu

Panel control (QS board adjustments).





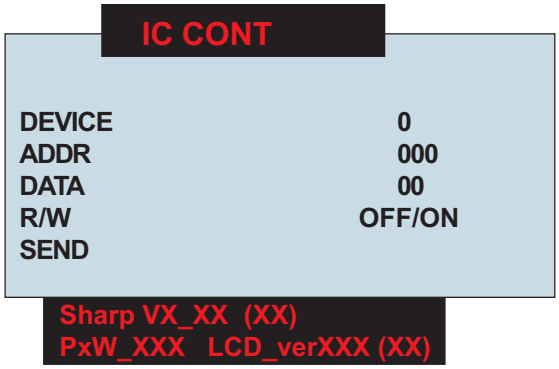
Use the up / down arrows to select a term in the menu.
Confirm the selection with **OK.**
Using the up / down arrows the values are changed.

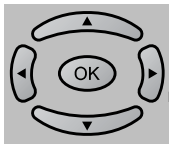
Press END button to return to the previous menu.

FREQ: Change between 50/60Hz and PC.
CLR MODE: When press OK key send the value to monitor microcontroller.
PATTERN1: Choose pattern to adjust QS.
PATTERN2: Choose pattern to adjust QS.
COMBIAS: Specific adjustment for QS. COMMON BIAS adjusting value is displayed.
IC CONT: See the next OSD.
SOFT VER.: Software version of QS IC. Display the version of monitor microcontroller.

COMBIAS Adjustment
Select COMBIAS and press the "OK" button so that the flicker screen will appear.
Adjust the flicker on the screen to minimum with up / down buttons on the remote control. At this time, press the "OK" key to complete the adjustment.

IC Cont Menu
Send specific data to the QS board.





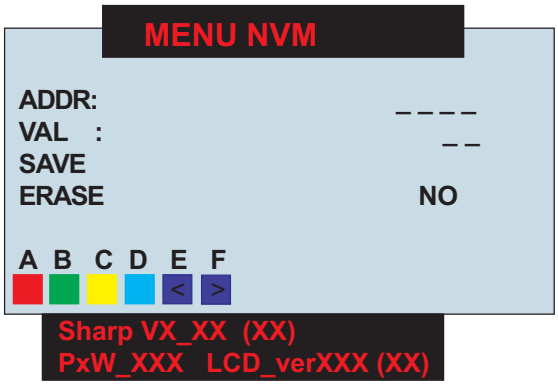
Use the up / down arrows to select a term in the menu.
Confirm the selection with **OK.**
Use the up / down arrows to change values.
Use the left / right arrows to change between parameters.

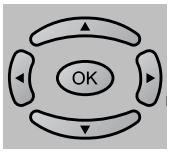
Press END button to return to the previous menu.

DEVICE: To select QS peripherals ICs. (0:LCD Controller / 1:QS Driver / 2: Extended Digital Analog Converter / 3: EEprom Microcontroller / 4: Reserved)
ADDR: Address of register.
DATA: Read mode: Display data after executing "SEND" / Write mode: Select data to write.
R/W: Select Read or Write. ON: write OFF: read.
SEND: Send data to QS.

NVM Menu

To change NVM values.

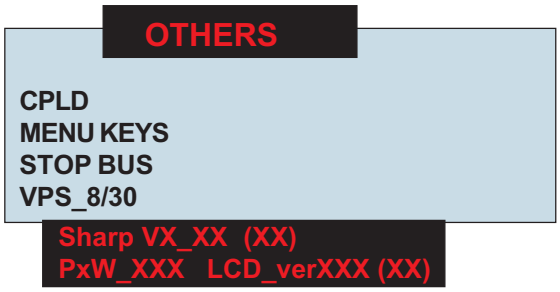


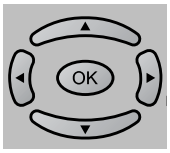


Use the up / down arrows to select a term in the menu.
Confirm the selection with **OK.**
Use the left / right arrows to change between parameters.
Use the up / down arrows to change values.

Press END button to return to the previous menu.

ADDR: NVM address.
VAL: NVM Value.
SAVE: Save NVM changes.
ERASE: If you select YES and Turn OFF - ON the TV by main switch, the data of NVM will be recorded to the default values .
In **ADDR** option of this menu, by using the colour buttons of R/C is possible to pass directly to A, B, C or D parameter.
Note:
DO NOT change any NVM data, unless you have been advised to do by a Sharp representative. If data is incorrectly changed, serious damage may occur to the receiver.



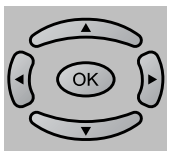


Use the up / down arrows to select a term in the menu.
Confirm the selection with **OK.**

Press END button to return to the previous menu.

STOP BUS: Stop IC communication.

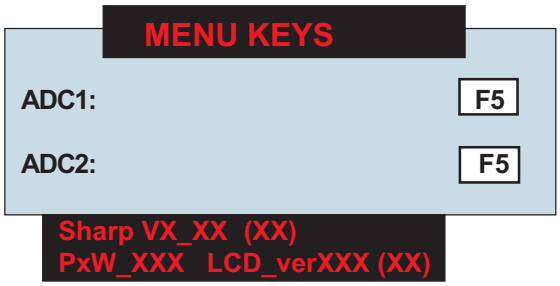
CPLD Menu (It is recommended do not modify this adjustment)
Specific data for CPLD IC (To check CPLD).



Use the up / down arrows to select a term in the menu.
Confirm the selection with **OK.**
Use the up / down arrows to change CPLD parameters.

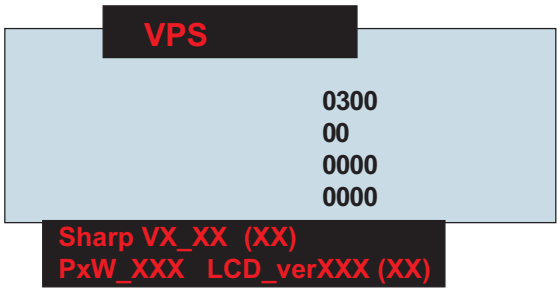
Press END button to return to the previous menu.

KEYS Menu
Control menu of good operation of the top panel control keys.
If, when a key of the panel is pressed, the value who appears is within the parameters that appear in this menu, the operation of this key is correct.
High values near FF means, no key pressed.



Press END button to return to the previous menu.

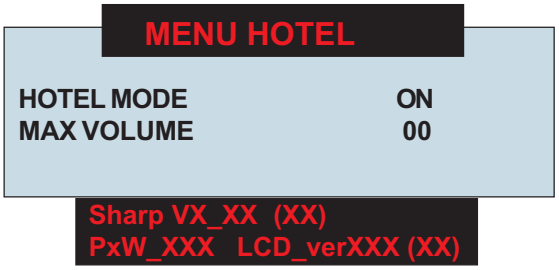
VPS
Broadcasting code identification.

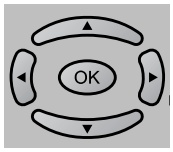


Only information about VPS. Changes are not allowed.

HOTEL Menu

In this menu the Hotel Mode is activated or deactivated.





Confirm the selection with **OK.**
Use the up / down arrows to change between ON/ OFF.

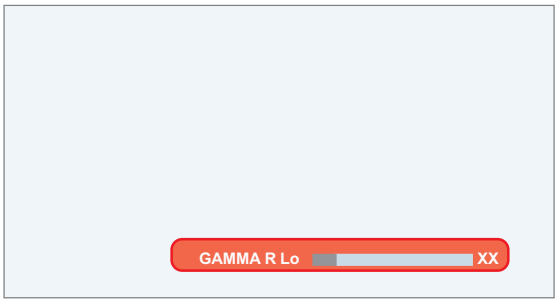
Press END button to return to the previous menu.

HOTEL MODE : To activate or to deactivate the HOTEL MODE.
MAX VOLUME : To limit the maximum volume.

HD Component White Balance

Before to carry out the HD Component White Balance Adjustments, it is requested to achieve the Common bias and ADC adjustments in this order.

Input Component signal format 720p / 50Hz (Pattern: White 20%.)
Change to EXT 4 in menu TV and set brightness and contrast to 50%.
Enter in adjustment process by remote control (key). The following OSD appears:



This Key (BROWSE) can be found in many CRT TV Remote Control. We detail two of them below:

Part Reference	SN Price Code	EX Price Code
RRMCG0739BMSA	AW	BT
RRMCG1022BMSA	**	BB

By up or down key choose Gamma R Lo or Gamma B Lo and adjust in order to become the reference value. Repeat as far as reference level is required.Don't change green colour. It must be as default value.

Change pattern: White 80%.
By up or down key choose Gamma R Hi or Gamma B Hi and adjust in order to become the reference value. Repeat as far as reference level is required.Don't change green colour. It must be as default value.

PC White Balance

Before to carry out the PC White Balance Adjustments, it is requested to achieve the Common bias and ADC adjustments in this order.

Input PC signal format -XGA (Pattern: White 20%.)
Change to PC Input in menu TV and set brightness and contrast to 50%.
Enter in adjustment process by remote control (browse key). The same White Balance Component HD OSD appears.

By up or down key choose Gamma R Lo or Gamma B Lo and adjust in order to become the reference value. Repeat as far as reference level is required.Don't change green colour. It must be as default value.

Change pattern: White 80%.
By up or down key choose Gamma R Hi or Gamma B Hi and adjust in order to become the reference value. Repeat as far as reference level is required.Don't change green colour. It must be as default value.

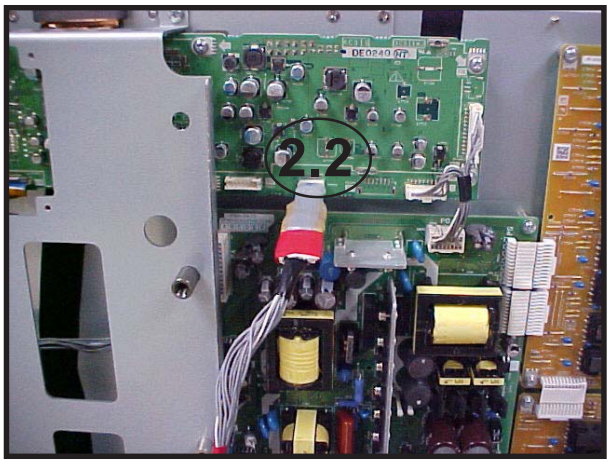
SOFTWARE UPDATING

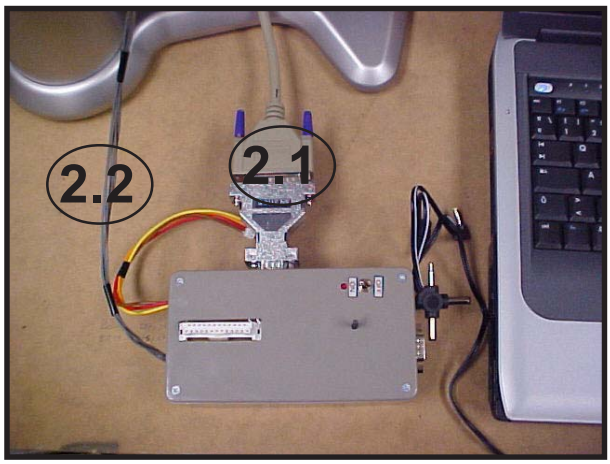
How to update VCTi Software

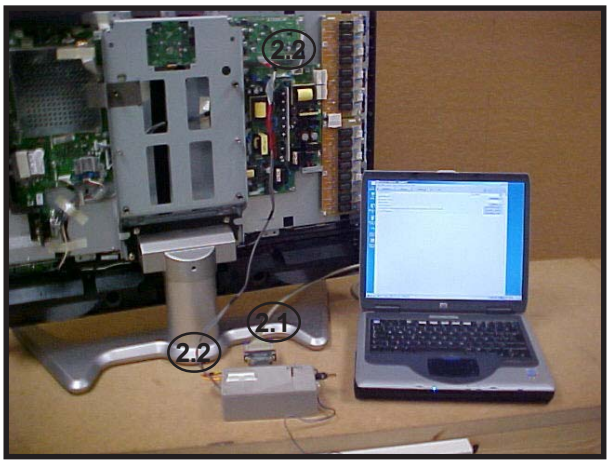
Hardware requirements

To update VCT it is needed:

1. A converter from Parallel port to DB9 supplied by Micronas, a male DB9 to female DB9 wire and the updating tool (Part Code: CKIT-0002WJV0).
2. Make the connections as indicated below.
   2.1. Connect Parallel cable from the updating tool to the PC.
   2.2. Connect the long cable from the updating tool to the P2005 connector (LCD Controller PWB).







Software requirements

A complete Visual I2C (VI2C) installation consists of 4 software components:

1. Visual I2C main program (‘visuali2c.exe’ and several DLL files)
2. Several DALs: These are IC specific low-level access drivers for the I2C bus.
3. A Windows port driver (LPT or USB). There are three versions for Win9x and WinNT/2000/XP.
4. One or more applications (‘*.vi2c’). They’re representing the interface to the user.

Software preparation

Move to folder:

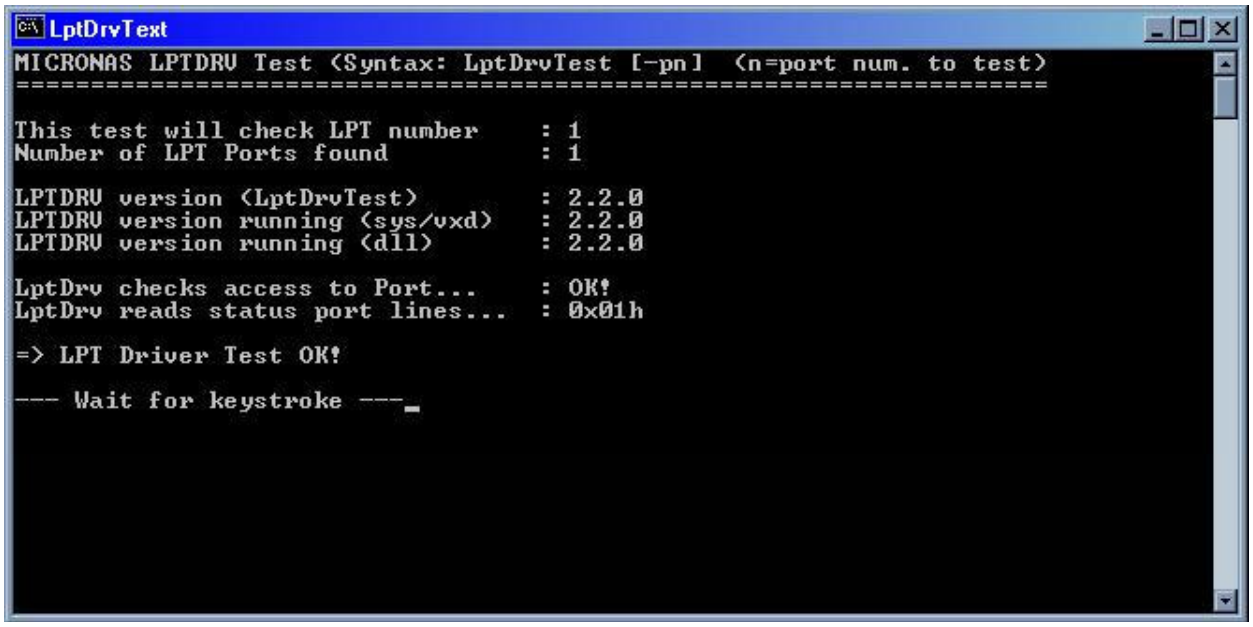
- D:\SOFTWARE UPDATE GA5\Installation order VCTi\1
- Install Visual I2C (SETUP_VISUAL_I2C_V3_1_7C.EXE)

It’s strongly recommended to accept the suggested default folder.

Move to folder:
- D:\SOFTWARE UPDATE GA5\Installation order VCTi\2
- Install LPT driver SETUP_LPTDRVDEV_V0202_XP_20.EXE
Use for Windows 95/98: Setup_LptDrv_v0104_9x.exe
Use for Windows 2000/XP: Setup_LptDrv_v0202_XP_20.exe
Use for Windows NT: Setup_LptDrv_v0104_NT.exe

After installing VI2C, the new generated file structure should look like this:
—> Micronas
|—> LptDrv (in case of parallel port driver installed!)
|—> Visual I2C
|—> dal
|—> doc
|—> Port_Driver
- Check installation of LPT driver:
C:\Program Files\Micronas\LptDrv\LptDrvTest.exe

If the LPT Driver is OK, the next picture shows:


LptDrvText
MICRONAS LPTDRV Test (Syntax: LptDrvTest [-pn] (n=port num. to test)
This test will check LPT number : 1
Number of LPT Ports found : 1
LPTDRV version (LptDrvTest) : 2.2.0
LPTDRV version running (sys/vxd) : 2.2.0
LPTDRV version running (dll) : 2.2.0
LptDrv checks access to Port... : OK!
LptDrv reads status port lines... : 0x01h
=> LPT Driver Test OK!
--- Wait for keystroke ---

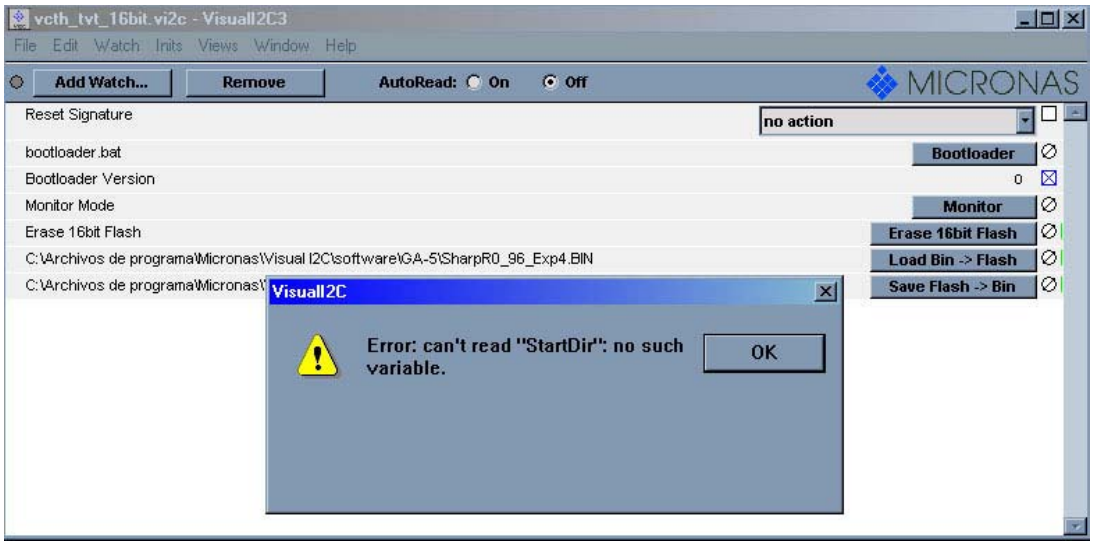
If this test is not OK, check in your BIOS: Parallel Port Mode = EPP

Move to folder:
-D:\SOFTWARE UPDATE GA5\Installation order VCTi\VCT49xyi
-Copy all the content to the folder C:\Program Files\Micronas\Visual I2C and after selecting all files and directories an change the «Read only» property. (When you copy from CD, the files are read only protected)

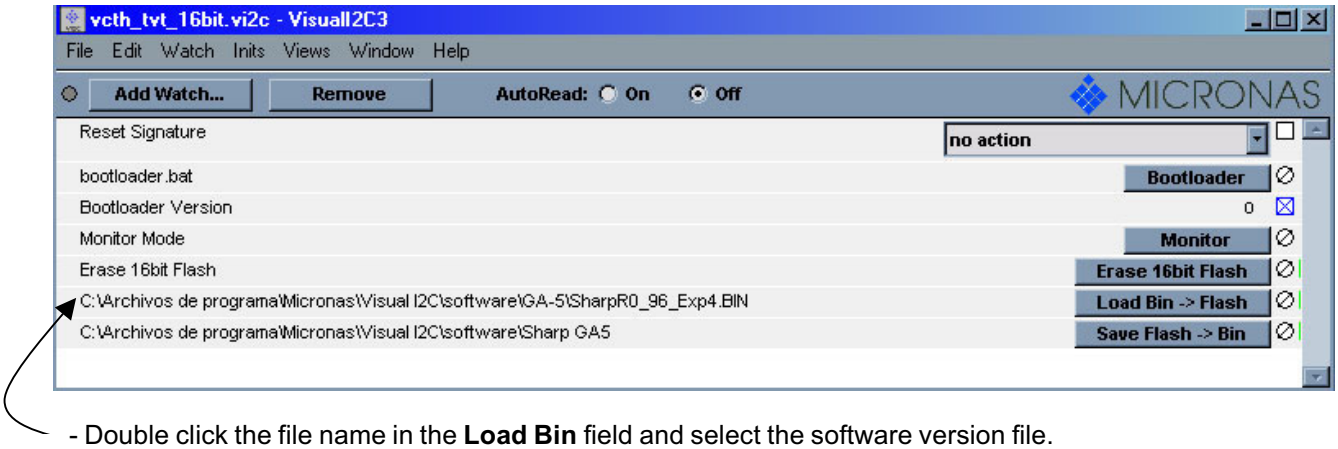
Check your installation:
-When you finish this process the Visual I2C is ready for Win2000 and XP
-LptDriver V.2.2.0 and VctiDown.exe V 1.3 are installed.

-If you have Win98 is necessary change version VctiDown.exe.
-Extract C:\Program Files\Micronas\Visual I2C\VCT49xyi\download\VctiDown_v1-2.zip in the same folder.
-Check LptDriver V1.4.0 and VctiDown.exe V1.2 are installed (Win98).

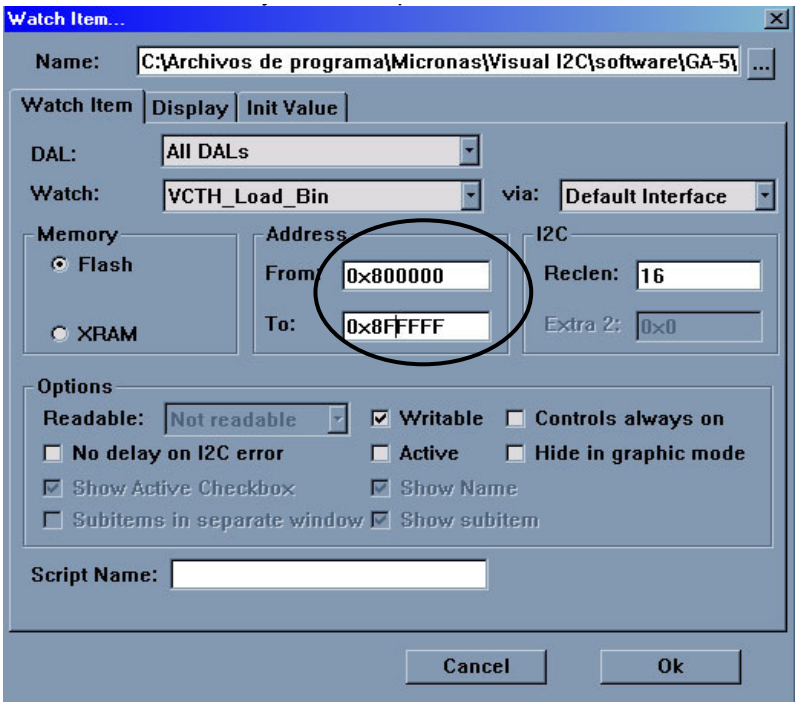
How to use the application
-To start VCTi software updater program, you can create direct access to:
C:\Program Files\Micronas\Visual I2C\VCT49xyi\vcth_tvt_16bit.vi2c
-Run direct access «vcth_tvt_16bit.vi2c».



-Press OK and Error disappear. Now the program is available for use.



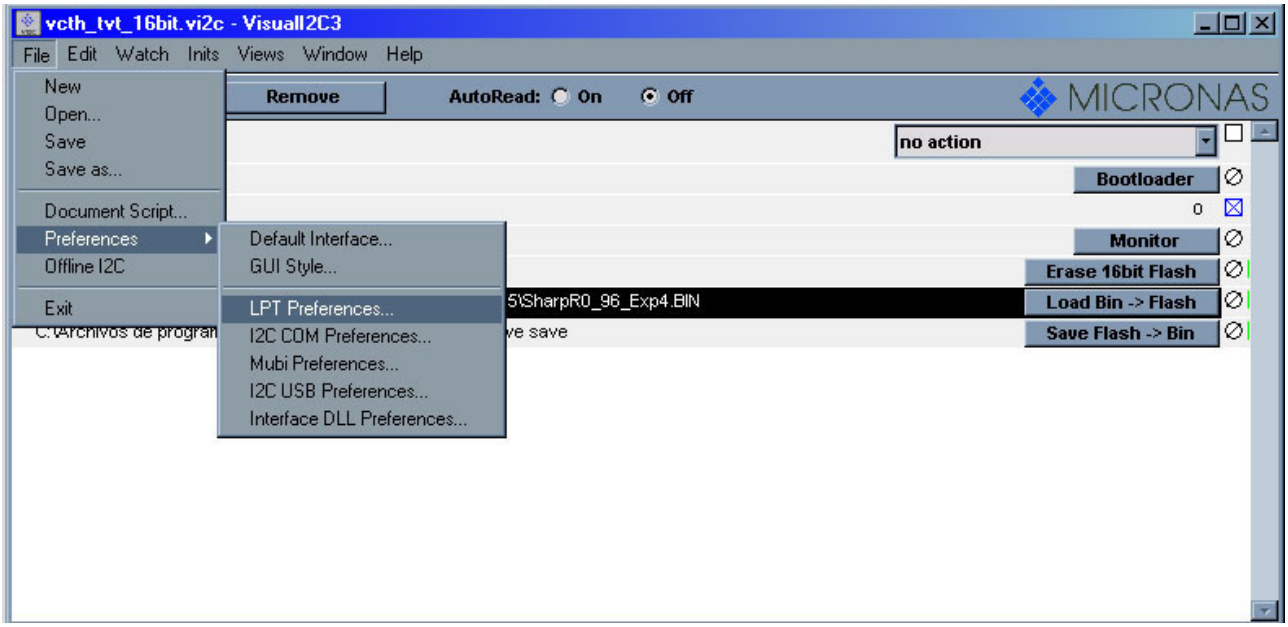
- Double click the file name in the **Load Bin** field and select the software version file.
- The first time you do this process confirm that the field address is from 0x800000 to 0x8FFFFF.



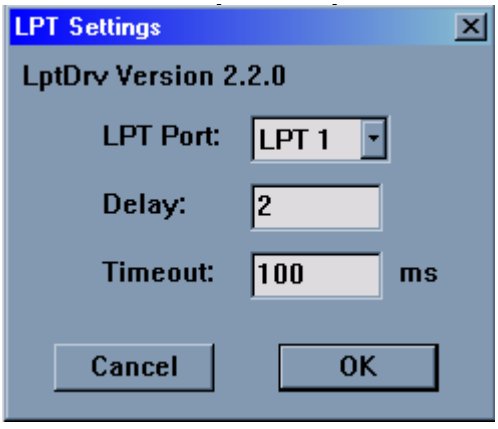
- Select Bootloader option. Set AutoRead to ON and wait until 21 appears in Bootlader Version field.
- Click on the button Erase 16bit Flash. The bootloader version will be zero during few seconds. When the version field marks again 21 set Auto Read OFF.
- Click on the button LOAD BIN -> FLASH and the updating will start up.
- The updating will end before the progress bar reaches the end; if there is no error message the updating has been good.

Sometime the progress bar is very quick or error message appears, then is necessary increase the delay until the problem disappear:

-Select LPT Preference.



- Increase Delay: normally 2 or 3 are the best choice.



If there are further problems to enter the bootloader mode you can use the hardware method:

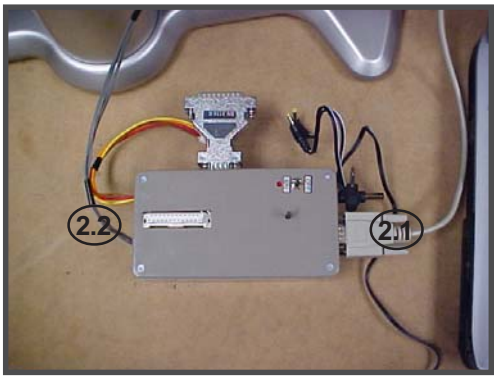
- Power off VCTi or hold RESET line to GND
- Pull down SCL line to GND
- Power up VCTi or release RESET line
- Release SCL pull down after minimum of 1 second

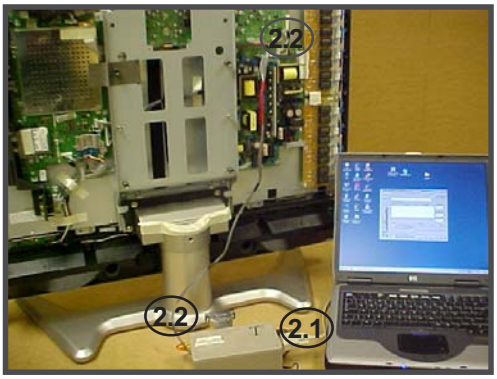
How to Update Pixelworks Software

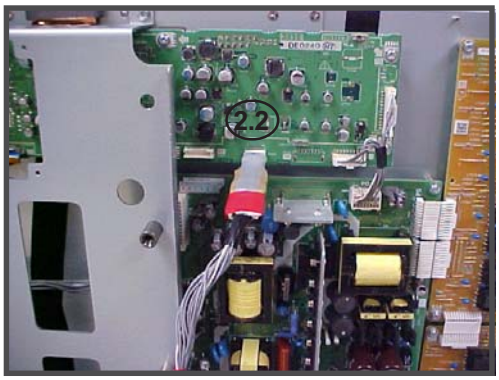
Hardware requirements

To update Pixelworks it is needed:

1. A female DB9 to male DB9 wire and the updating tool (Part Code: CKIT-0002WJV0).
2. Make the connections as indicated below.
   2.1. Connect a Serial cable from the updating tool to the PC.
   2.2. Connect the long cable from the updating tool to the P2005 connector (LCD Controller PWB).







Software requirements

Pixel Works FlashUpgrader.

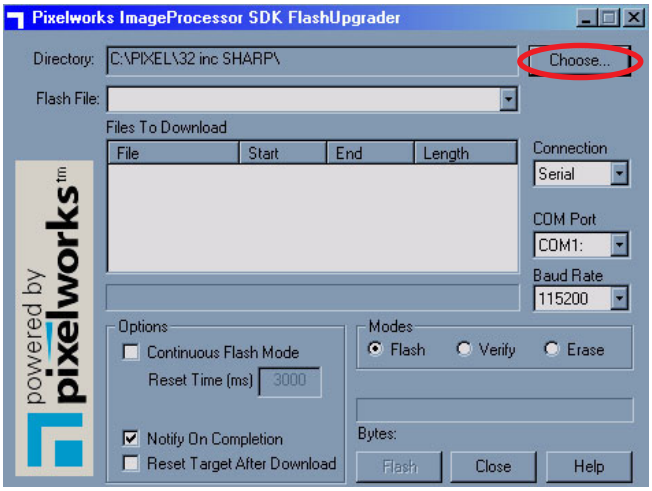
Software preparation

- Create in the PC C:\Pixel folder.

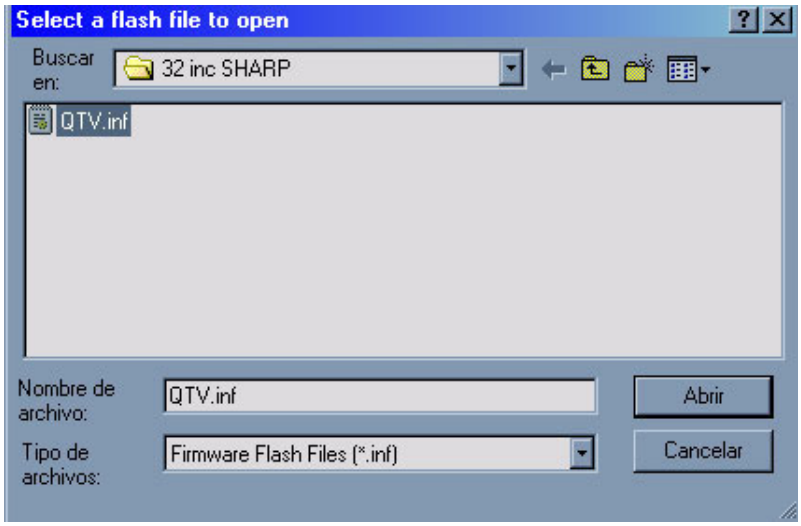
-Copy file FlashUpgrader.exe from D:\SOFTWARE UPDATE GA5\Pixel Works to C:\Pixel that you have created previously.

How to use the application

- Switch on the set you want to update and enter in service mode.
- Double click on C:\Pixel\FlashUpgrader.exe to start the program. The below picture appear:



- Click on «Choose» and select the QTV.inf file where you have the software version.



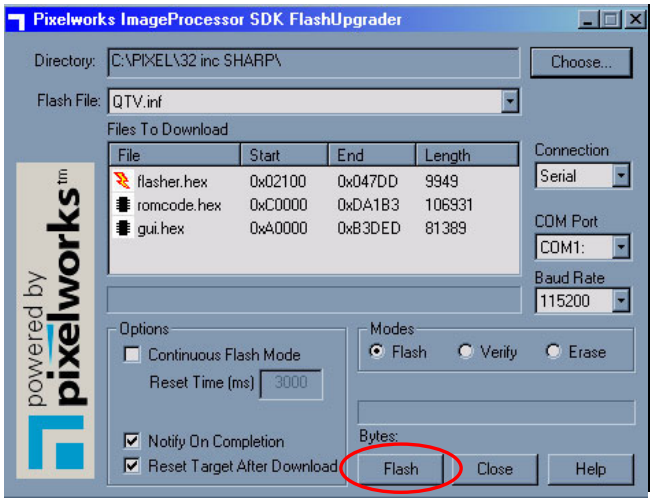
File name

File type

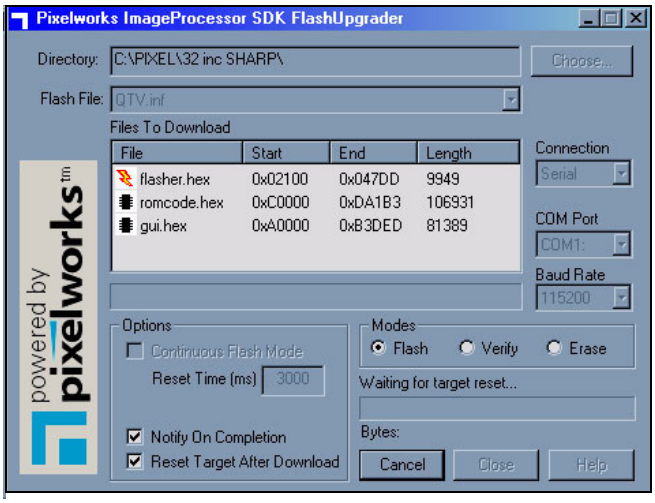
Open

Cancel

- Click on Flash button and the program is waiting for target reset.



- Press Input mode (TV/Video) key on the remote control to reset the Pixel IC and start updating.



If there is not reported any error the update is done, but you can verify the update following the same process but

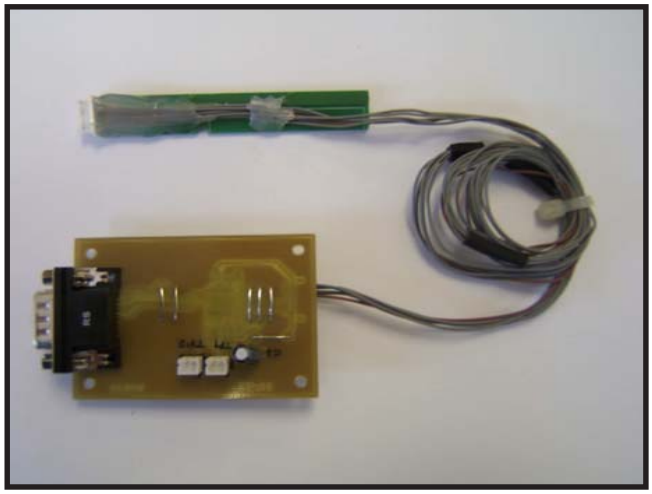
How to Update the Monitor Microcontroller Software

There are 2 ways to update the monitor microcontroller software:

1. Only LCD controller board itself
2. TV Set (already assembled)

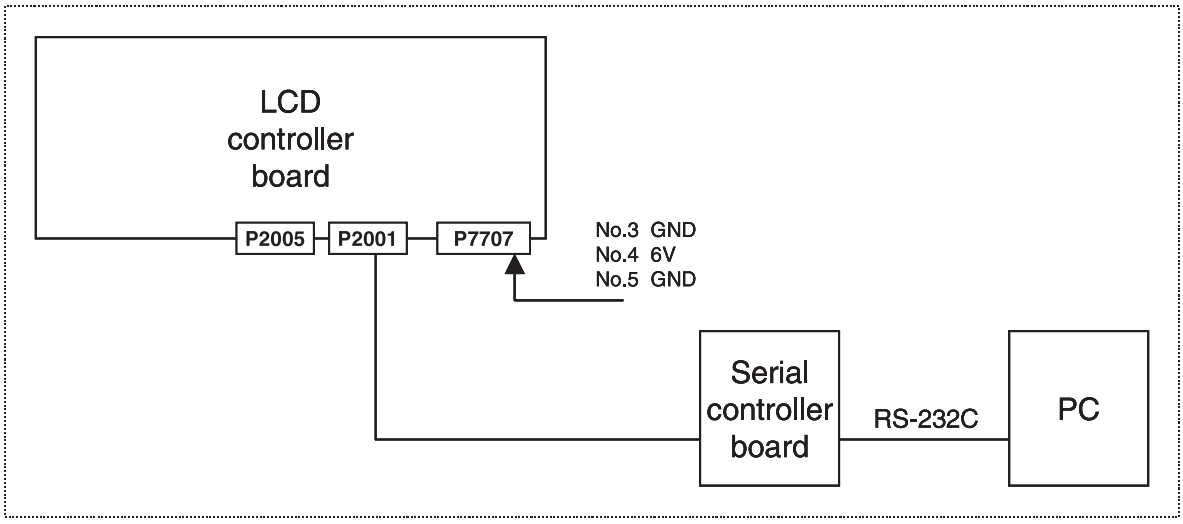
Preparation

- (A) MoniWrite.exe(Application)
- (B) Monitor microcontroller software (*.MOT)
- (C) RS-232C cross cable
- (D) Serial controller board. (Part code: CKIT-0003WJV0).



Connection

1. Only LCD controller board itself
   1.1- Connect serial controller board (D) and PC with RS-232C cross cable (C).
   1.2- Connect serial controller board (D) and the connector P2001 on LCD controller board.
   1.3- Supply 6V to No.4 of P7707 on LCD controller board.



2. TV set
2.1- Connect serial controller board (D) and PC with RS-232C cross cable (C).
2.2- Connect serial controller board (D) and the connector P2005 on LCD controller board via adapter (E).
2.3- Plug AC cable.

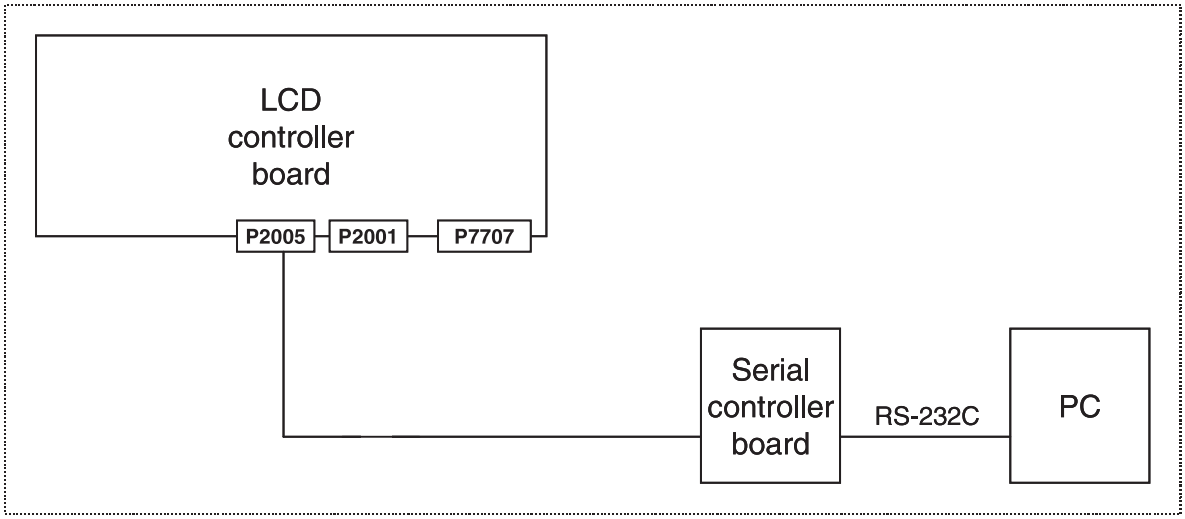
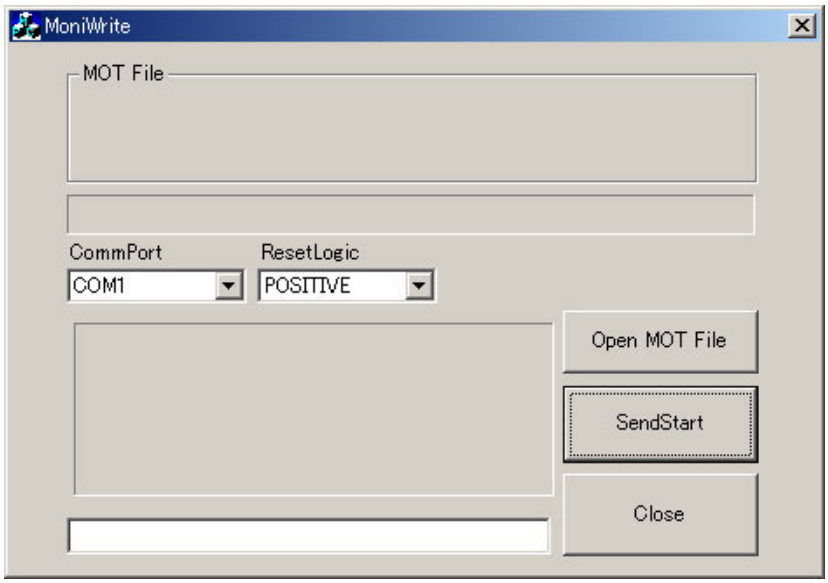


Photo connection.

How to use the application (MoniWrite.exe)

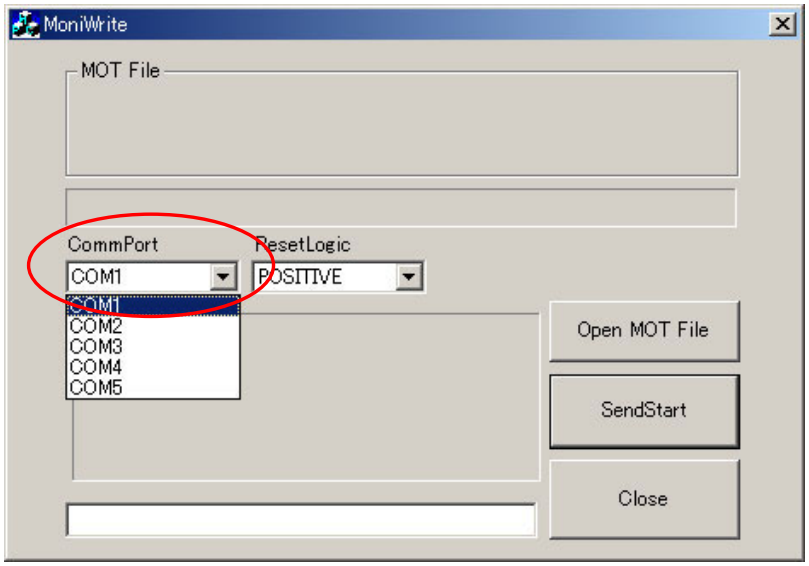
1. Start application

The following windows open.

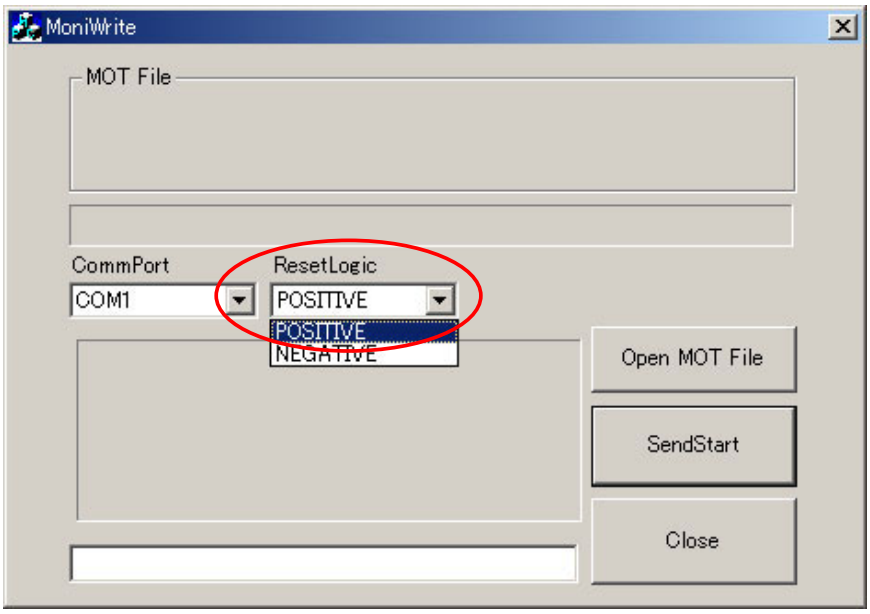


2. Select COM port

Select COM port connected with Serial Controller Board.



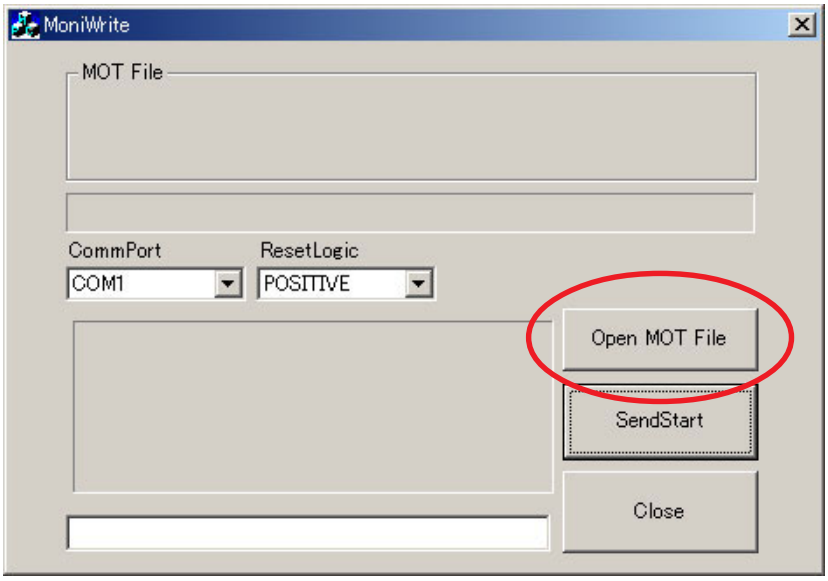
3. Select ResetLogic
Select ResetLogic «positive» or «negative».



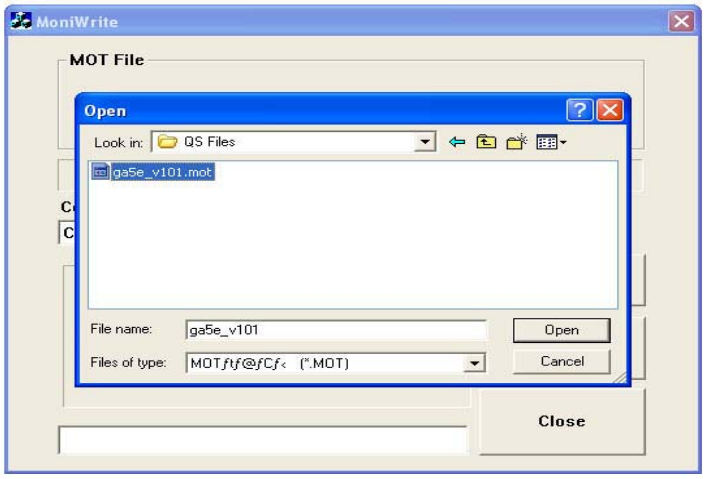
Resetlogic setting for each level hardware

1. Only board itself P2001	2. TV set (assembled) P2005
Negative	Positive

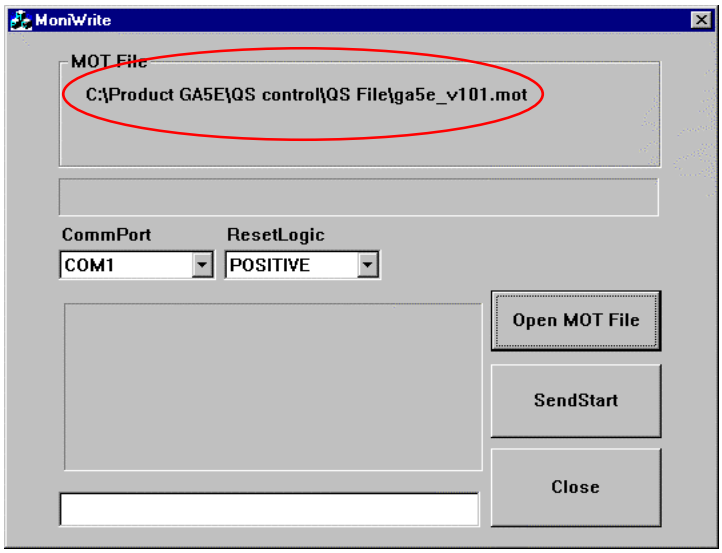
4. Open MOT File
4.1- Click «Open MOT File».



4.2- Select the monitor microcontroller software (*.MOT) to update.

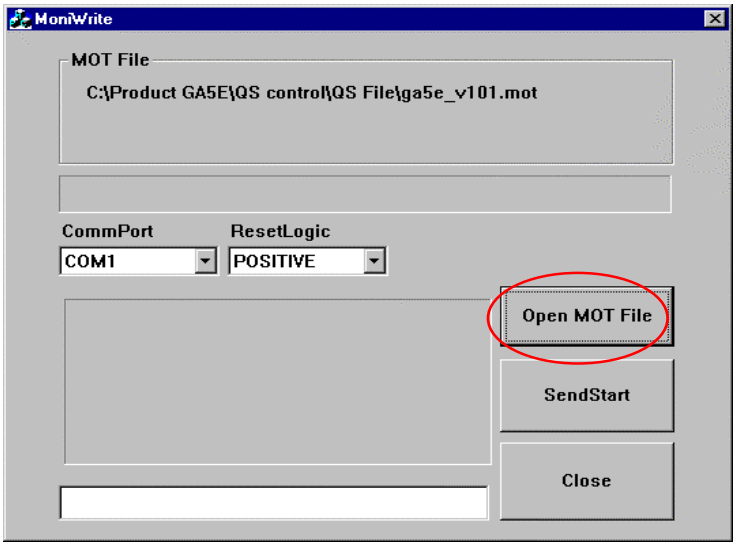


4.3- Check the selected file is correct.

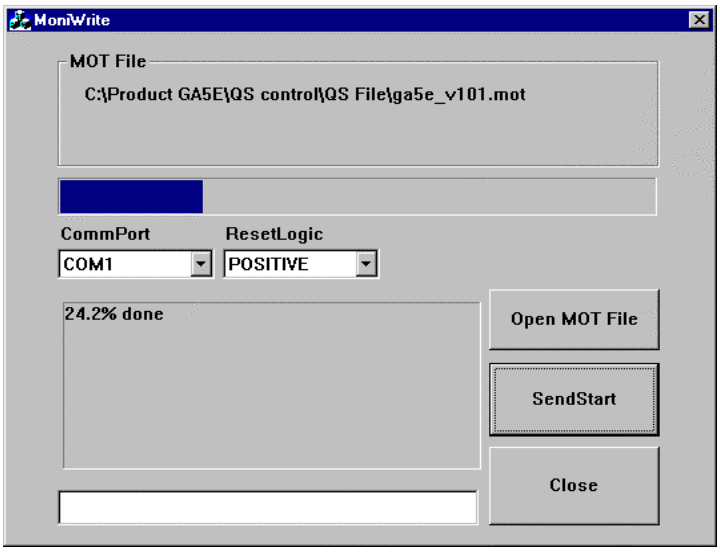


5. Send Start

5.1- Click «SendStart» button and start updating.

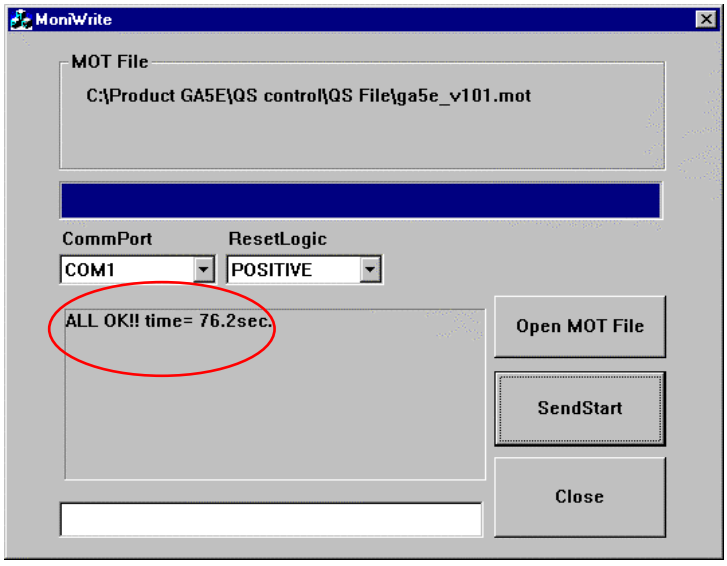


5.2- Now updating....



(Send flash writing control program first, and then send the software.)

5.3- Update completed.



6. After update completed
6.1- Unplug AC cable
6.2- Disconnect serial control board.

TROUBLESHOOTING TABLE

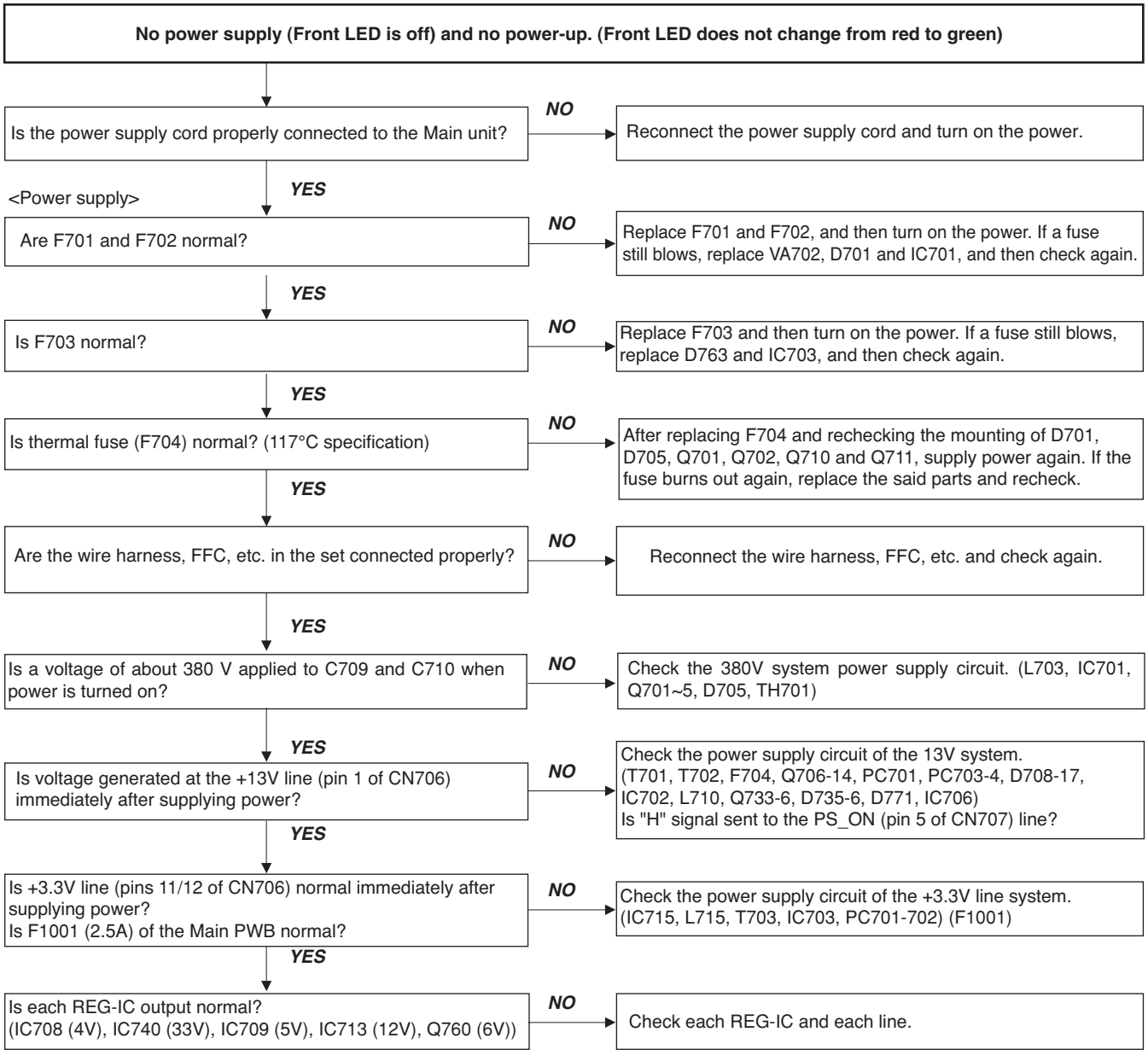
Previously to start following the behing troubleshooting tables, consider the below situations.

Problem	Possible Solution
• No power.	• Is the AC cord disconnected? • Has the power been turned on? • Make sure the ⏻ (**POWER**) switch of the TV is set to ON.
• Unit cannot be operated.	• External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the unit after first turning the power off, or unplugging the AC cord and re-plugging it in after 1 or 2 minutes.
• Remote control unit does not operate.	• Are batteries inserted with polarity (+, −) aligned? • Are batteries worn out? (Replace with new batteries.) • Are you using it under strong or fluorescent lighting? • Is a fluorescent light illuminated to remote control sensor?
• Strange colour, light colour, or dark, or colour misalignment.	• Adjust the picture levels. • Is the room too bright? The picture may look dark in a room that is too bright. • Check the system setting. • Check the input type setting.
• Power is suddenly turned off.	• The unit's internal temperature has increased. Remove any objects blocking vent or clean. • Check the power control setting.
• No picture.	• Is connection to other components correct? • Has input type setup been done correctly after connection? • Is the correct input selected? • Is a non-compatible signal being input? • Is picture adjustment correct? • Is the antenna connected properly?
• No sound.	• Is the volume too low? • Make sure that headphones are not connected. • Make sure the sound is not set to Mute.

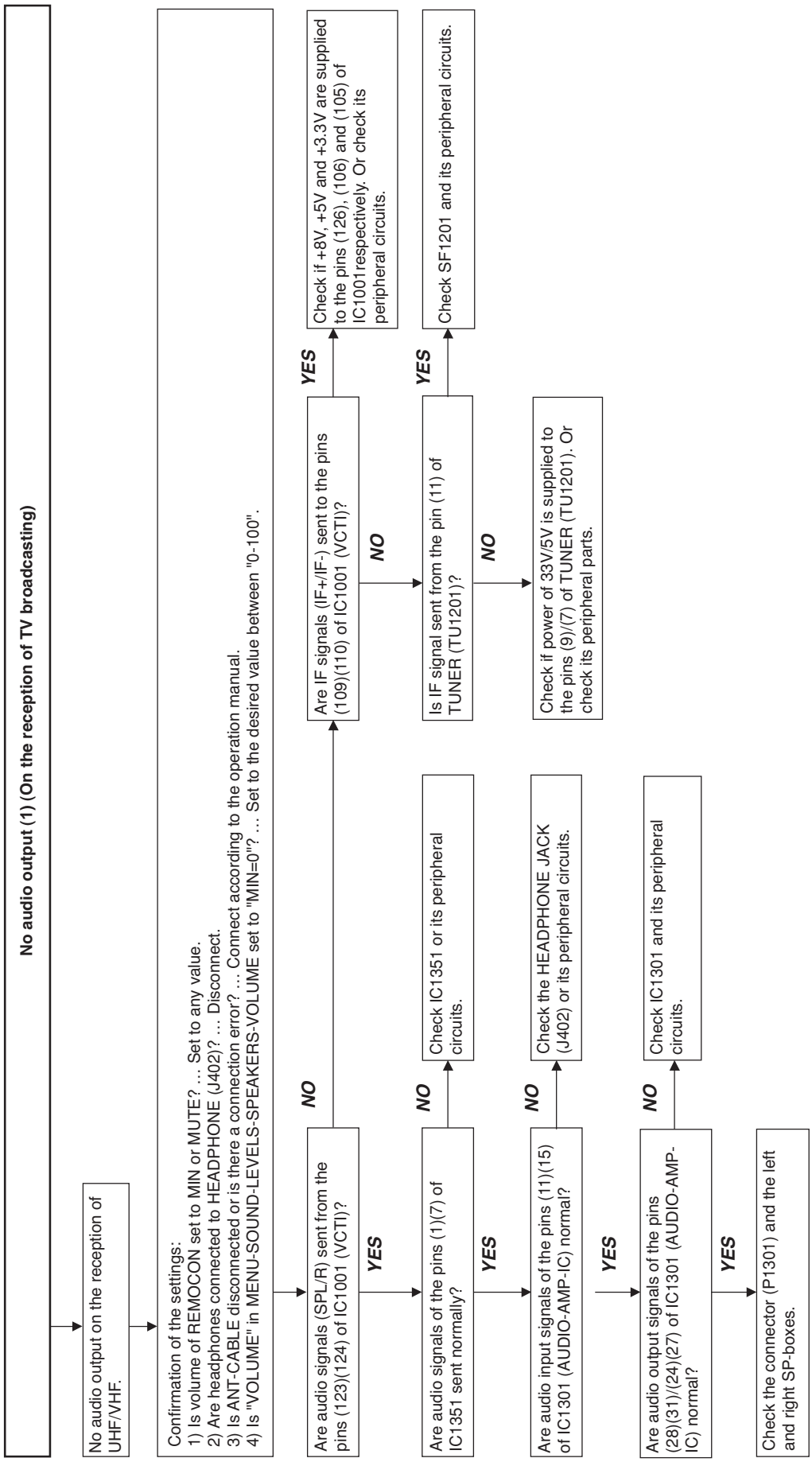
Cautions regarding use in high and low temperature environments

- When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction.
  Storage temperature: –20°C to +60°C (–4°F to +140°F).

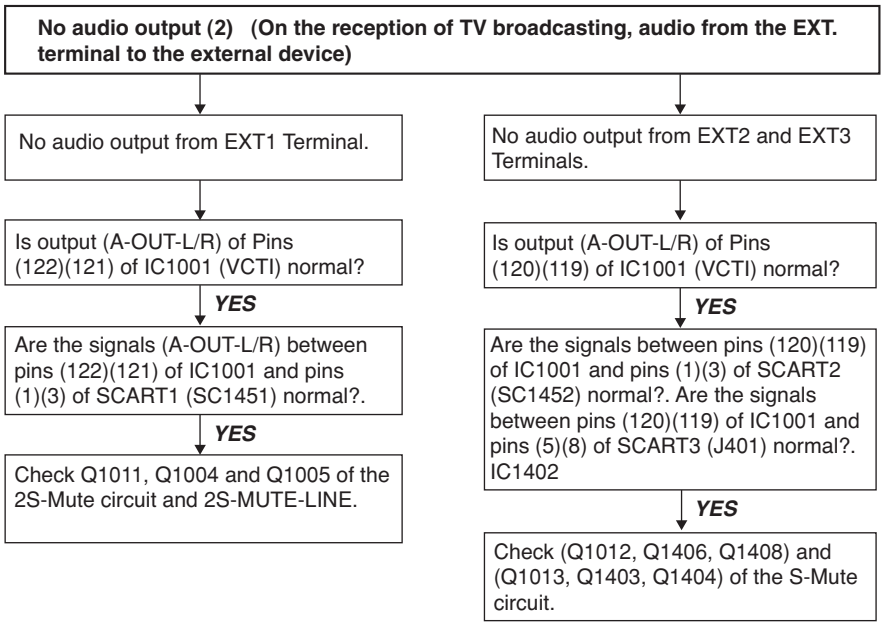
Troubleshooting Table (continued)


No power supply (Front LED is off) and no power-up. (Front LED does not change from red to green)
Is the power supply cord properly connected to the Main unit?
NO
Reconnect the power supply cord and turn on the power.
YES
<Power supply>
Are F701 and F702 normal?
NO
Replace F701 and F702, and then turn on the power. If a fuse still blows, replace VA702, D701 and IC701, and then check again.
YES
Is F703 normal?
NO
Replace F703 and then turn on the power. If a fuse still blows, replace D763 and IC703, and then check again.
YES
Is thermal fuse (F704) normal? (117°C specification)
NO
After replacing F704 and rechecking the mounting of D701, D705, Q701, Q702, Q710 and Q711, supply power again. If the fuse burns out again, replace the said parts and recheck.
YES
Are the wire harness, FFC, etc. in the set connected properly?
NO
Reconnect the wire harness, FFC, etc. and check again.
YES
Is a voltage of about 380 V applied to C709 and C710 when power is turned on?
NO
Check the 380V system power supply circuit. (L703, IC701, Q701~5, D705, TH701)
YES
Is voltage generated at the +13V line (pin 1 of CN706) immediately after supplying power?
NO
Check the power supply circuit of the 13V system.
(T701, T702, F704, Q706-14, PC701, PC703-4, D708-17, IC702, L710, Q733-6, D735-6, D771, IC706)
Is "H" signal sent to the PS_ON (pin 5 of CN707) line?
YES
Is +3.3V line (pins 11/12 of CN706) normal immediately after supplying power?
Is F1001 (2.5A) of the Main PWB normal?
NO
Check the power supply circuit of the +3.3V line system.
(IC715, L715, T703, IC703, PC701-702) (F1001)
YES
Is each REG-IC output normal?
(IC708 (4V), IC740 (33V), IC709 (5V), IC713 (12V), Q760 (6V))
NO
Check each REG-IC and each line.

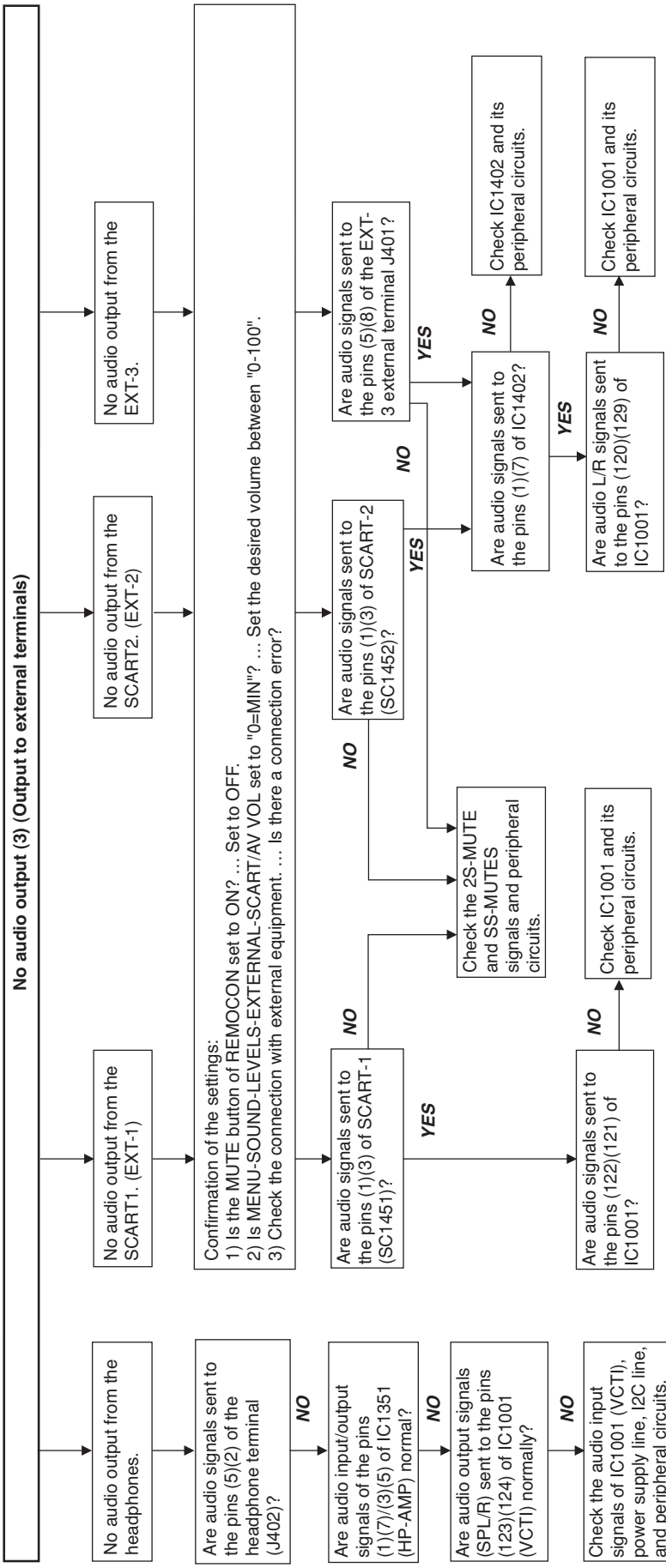
Troubleshooting Table (continued)


No audio output (1) (On the reception of TV broadcasting)
No audio output on the reception of UHF/VHF.
Confirmation of the settings:
1) Is volume of REMOCON set to MIN or MUTE? ... Set to any value.
2) Are headphones connected to HEADPHONE (J402)? ... Disconnect.
3) Is ANT-CABLE disconnected or is there a connection error? ... Connect according to the operation manual.
4) Is "VOLUME" in MENU-SOUND-LEVELS-SPEAKERS-VOLUME set to "MIN=0"? ... Set to the desired value between "0-100".
Are audio signals (SPL/R) sent from the pins (123)(124) of IC1001 (VCTI)?
YES
NO
Are audio signals of the pins (1)(7) of IC1351 sent normally?
YES
NO
Are audio input signals of the pins (11)(15) of IC1301 (AUDIO-AMP-IC) normal?
YES
NO
Are audio output signals of the pins (28)(31)/(24)(27) of IC1301 (AUDIO-AMP-IC) normal?
YES
NO
Check the connector (P1301) and the left and right SP-boxes.
Check IC1351 or its peripheral circuits.
Check the HEADPHONE JACK (J402) or its peripheral circuits.
Check IC1301 and its peripheral circuits.
Are IF signals (IF+/IF-) sent to the pins (109)(110) of IC1001 (VCTI)?
YES
NO
Is IF signal sent from the pin (11) of TUNER (TU1201)?
YES
NO
Check if power of 33V/5V is supplied to the pins (9)/(7) of TUNER (TU1201). Or check its peripheral parts.
Check if +8V, +5V and +3.3V are supplied to the pins (126), (106) and (105) of IC1001respectively. Or check its peripheral circuits.
Check SF1201 and its peripheral circuits.

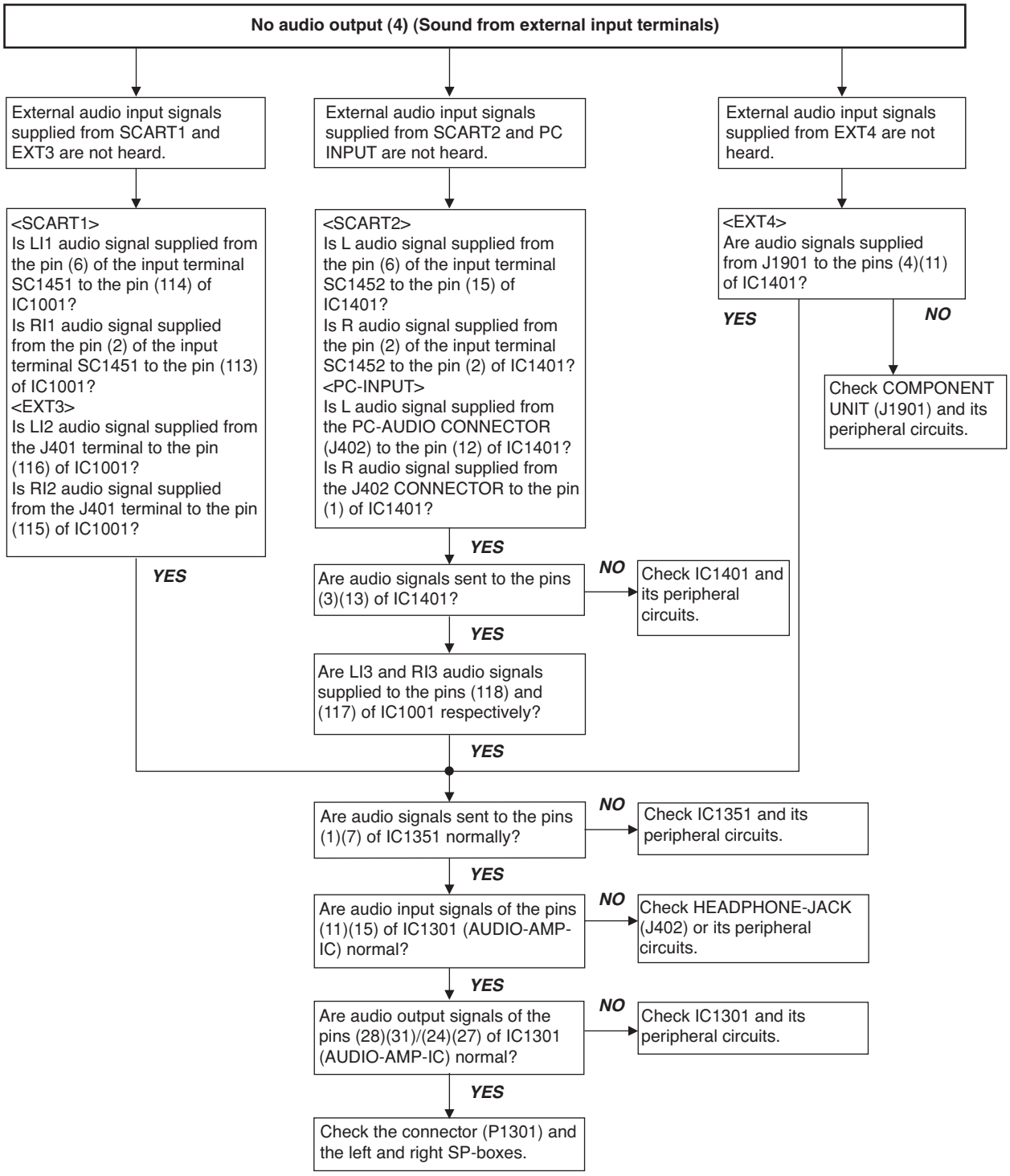
Troubleshooting Table (continued)


No audio output (2) (On the reception of TV broadcasting, audio from the EXT. terminal to the external device)
No audio output from EXT1 Terminal.
Is output (A-OUT-L/R) of Pins (122)(121) of IC1001 (VCTI) normal?
YES
Are the signals (A-OUT-L/R) between pins (122)(121) of IC1001 and pins (1)(3) of SCART1 (SC1451) normal?.
YES
Check Q1011, Q1004 and Q1005 of the 2S-Mute circuit and 2S-MUTE-LINE.
No audio output from EXT2 and EXT3 Terminals.
Is output (A-OUT-L/R) of Pins (120)(119) of IC1001 (VCTI) normal?
YES
Are the signals between pins (120)(119) of IC1001 and pins (1)(3) of SCART2 (SC1452) normal?. Are the signals between pins (120)(119) of IC1001 and pins (5)(8) of SCART3 (J401) normal?. IC1402
YES
Check (Q1012, Q1406, Q1408) and (Q1013, Q1403, Q1404) of the S-Mute circuit.

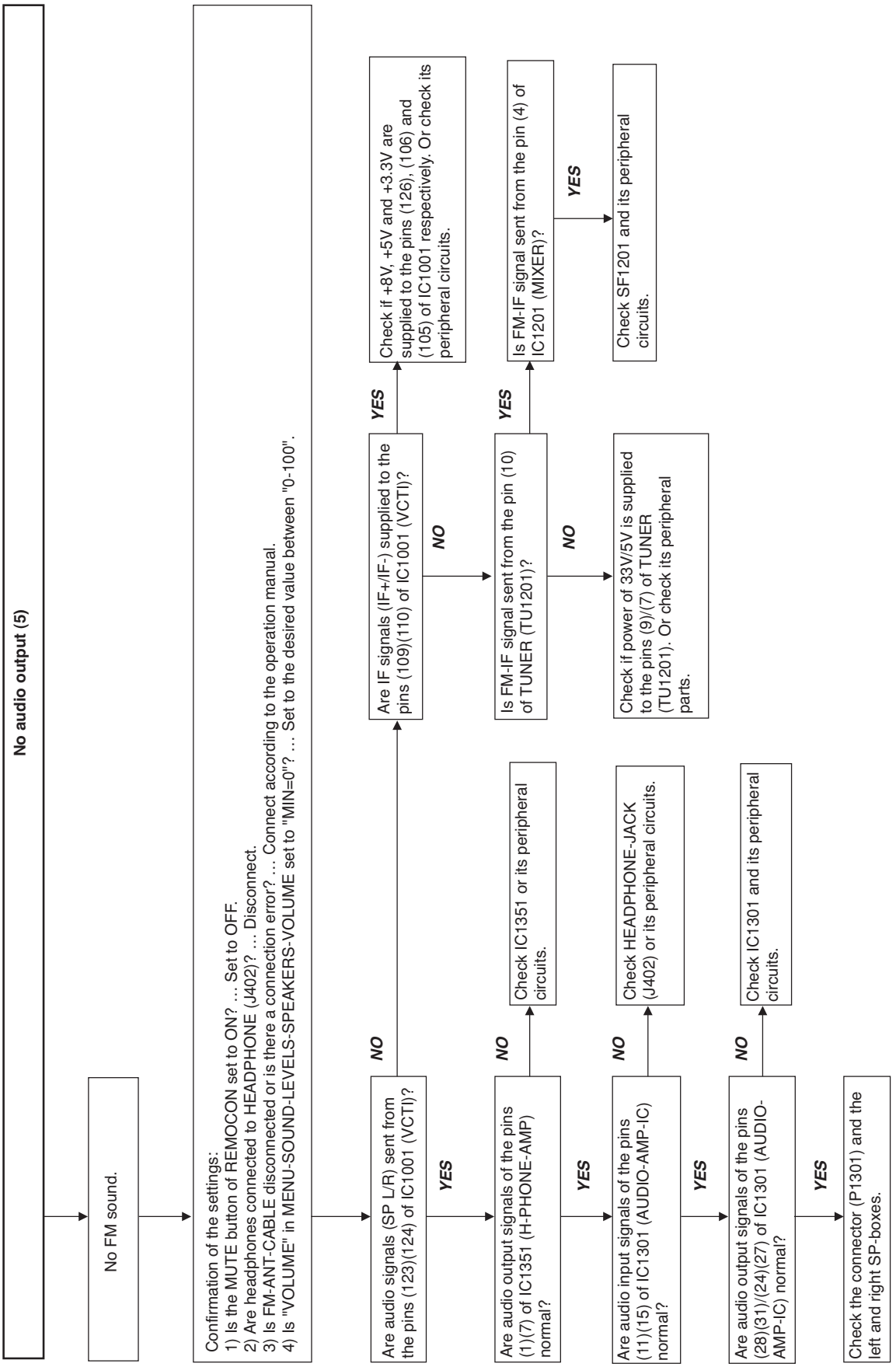
Troubleshooting Table (continued)


No audio output (3) (Output to external terminals)
No audio output from the headphones.
Are audio signals sent to the pins (5)(2) of the headphone terminal (J402)?
NO
Are audio input/output signals of the pins (1)(7)/(3)(5) of IC1351 (HP-AMP) normal?
NO
Are audio output signals (SPL/R) sent to the pins (123)(124) of IC1001 (VCTI) normally?
NO
Check the audio input signals of IC1001 (VCTI), power supply line, I2C line, and peripheral circuits.
No audio output from the SCART1. (EXT-1)
No audio output from the SCART2. (EXT-2)
No audio output from the EXT-3.
Confirmation of the settings:
1) Is the MUTE button of REMOCON set to ON? ... Set to OFF.
2) Is MENU-SOUND-LEVELS-EXTERNAL-SCART/AV VOL set to "0=MIN"? ... Set the desired volume between "0-100".
3) Check the connection with external equipment. ... Is there a connection error?
Are audio signals sent to the pins (1)(3) of SCART-1 (SC1451)?
NO
YES
Are audio signals sent to the pins (1)(3) of SCART-2 (SC1452)?
NO
YES
Are audio signals sent to the pins (5)(8) of the EXT-3 external terminal J401?
NO
YES
Are audio signals sent to the pins (122)(121) of IC1001?
NO
Check IC1001 and its peripheral circuits.
Check the 2S-MUTE and SS-MUTES signals and peripheral circuits.
Are audio signals sent to the pins (1)(7) of IC1402?
NO
YES
Check IC1402 and its peripheral circuits.
Are audio L/R signals sent to the pins (120)(129) of IC1001?
NO
Check IC1001 and its peripheral circuits.

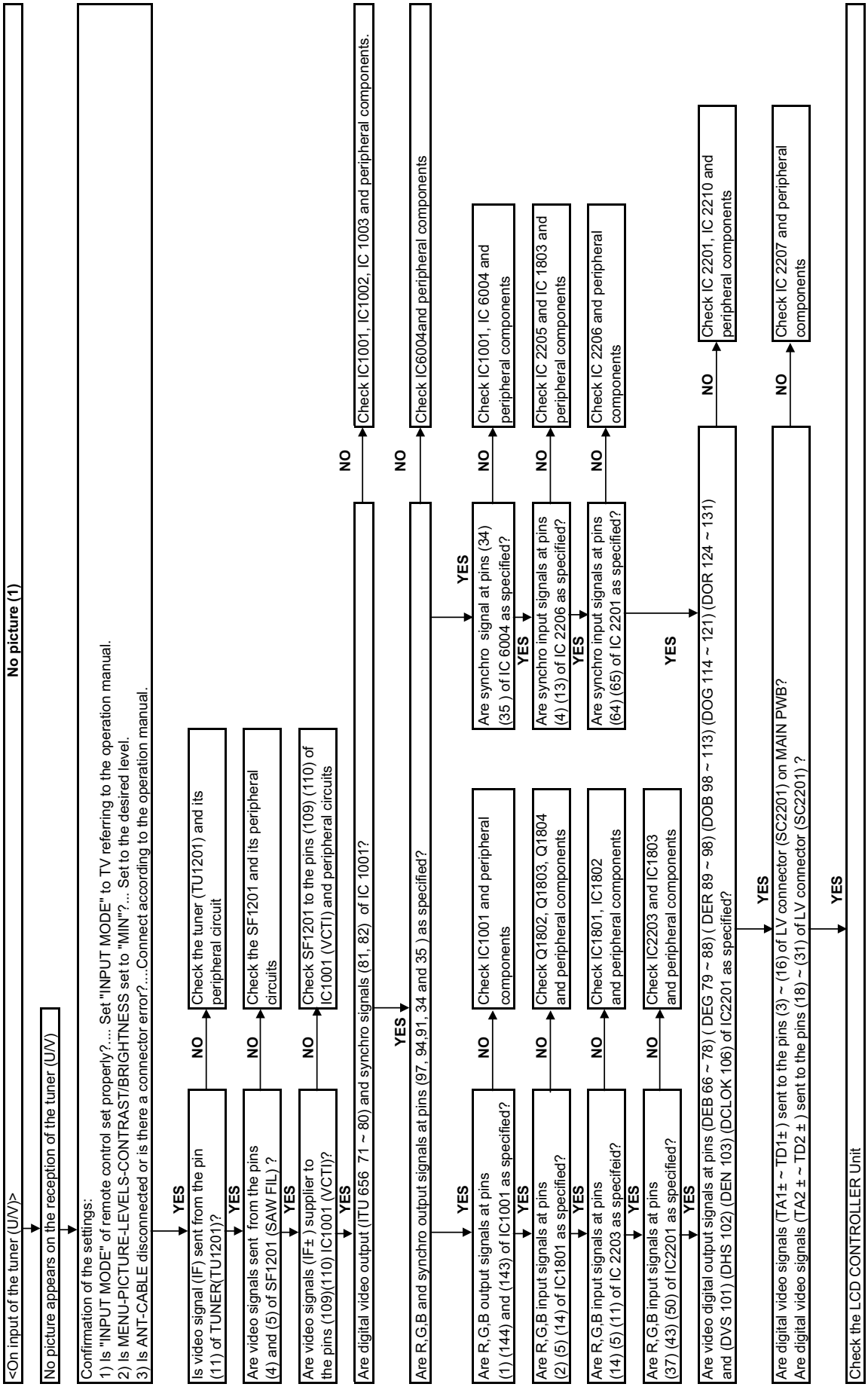
Troubleshooting Table (continued)


No audio output (4) (Sound from external input terminals)
External audio input signals supplied from SCART1 and EXT3 are not heard.
External audio input signals supplied from SCART2 and PC INPUT are not heard.
External audio input signals supplied from EXT4 are not heard.
<SCART1>
Is LI1 audio signal supplied from the pin (6) of the input terminal SC1451 to the pin (114) of IC1001?
Is RI1 audio signal supplied from the pin (2) of the input terminal SC1451 to the pin (113) of IC1001?
<EXT3>
Is LI2 audio signal supplied from the J401 terminal to the pin (116) of IC1001?
Is RI2 audio signal supplied from the J401 terminal to the pin (115) of IC1001?
<SCART2>
Is L audio signal supplied from the pin (6) of the input terminal SC1452 to the pin (15) of IC1401?
Is R audio signal supplied from the pin (2) of the input terminal SC1452 to the pin (2) of IC1401?
<PC-INPUT>
Is L audio signal supplied from the PC-AUDIO CONNECTOR (J402) to the pin (12) of IC1401?
Is R audio signal supplied from the J402 CONNECTOR to the pin (1) of IC1401?
<EXT4>
Are audio signals supplied from J1901 to the pins (4)(11) of IC1401?
YES
NO
Check COMPONENT UNIT (J1901) and its peripheral circuits.
YES
Are audio signals sent to the pins (3)(13) of IC1401?
NO
Check IC1401 and its peripheral circuits.
YES
Are LI3 and RI3 audio signals supplied to the pins (118) and (117) of IC1001 respectively?
YES
Are audio signals sent to the pins (1)(7) of IC1351 normally?
NO
Check IC1351 and its peripheral circuits.
YES
Are audio input signals of the pins (11)(15) of IC1301 (AUDIO-AMP-IC) normal?
NO
Check HEADPHONE-JACK (J402) or its peripheral circuits.
YES
Are audio output signals of the pins (28)(31)/(24)(27) of IC1301 (AUDIO-AMP-IC) normal?
NO
Check IC1301 and its peripheral circuits.
YES
Check the connector (P1301) and the left and right SP-boxes.

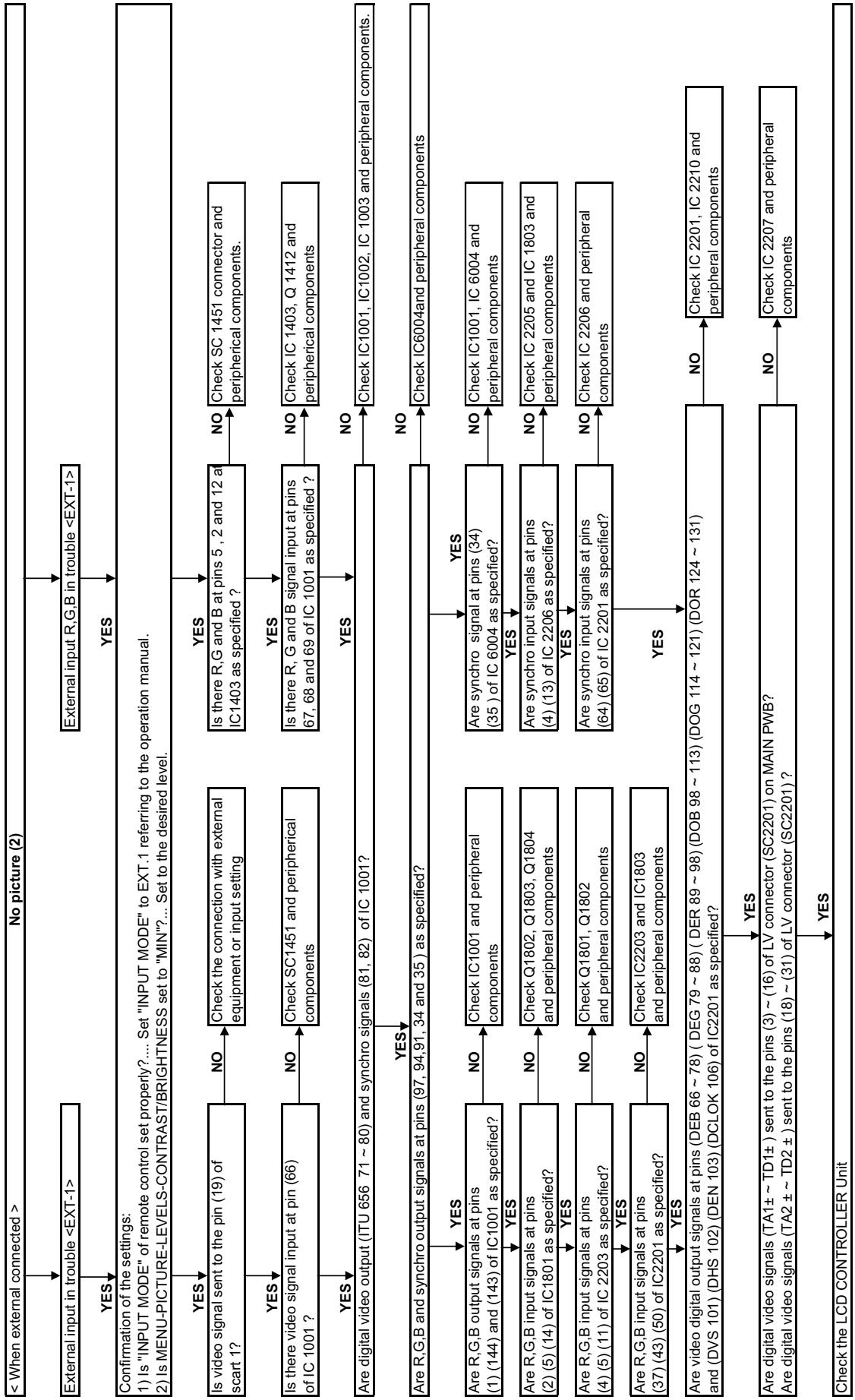
Troubleshooting Table (continued)


No audio output (5)
No FM sound.
Confirmation of the settings:
1) Is the MUTE button of REMOCON set to ON? ... Set to OFF.
2) Are headphones connected to HEADPHONE (J402)? ... Disconnect.
3) Is FM-ANT-CABLE disconnected or is there a connection error? ... Connect according to the operation manual.
4) Is "VOLUME" in MENU-SOUND-LEVELS-SPEAKERS-VOLUME set to "MIN=0"? ... Set to the desired value between "0-100".
Are audio signals (SP L/R) sent from the pins (123)(124) of IC1001 (VCTI)?
NO
Are IF signals (IF+/IF-) supplied to the pins (109)(110) of IC1001 (VCTI)?
YES
Check if +8V, +5V and +3.3V are supplied to the pins (126), (106) and (105) of IC1001 respectively. Or check its peripheral circuits.
NO
Is FM-IF signal sent from the pin (10) of TUNER (TU1201)?
YES
Is FM-IF signal sent from the pin (4) of IC1201 (MIXER)?
YES
Check SF1201 and its peripheral circuits.
NO
Check if power of 33V/5V is supplied to the pins (9)/(7) of TUNER (TU1201). Or check its peripheral parts.
YES
Are audio output signals of the pins (1)(7) of IC1351 (H-PHONE-AMP) normal?
NO
Check IC1351 or its peripheral circuits.
YES
Are audio input signals of the pins (11)(15) of IC1301 (AUDIO-AMP-IC) normal?
NO
Check HEADPHONE-JACK (J402) or its peripheral circuits.
YES
Are audio output signals of the pins (28)(31)/(24)(27) of IC1301 (AUDIO-AMP-IC) normal?
NO
Check IC1301 and its peripheral circuits.
YES
Check the connector (P1301) and the left and right SP-boxes.

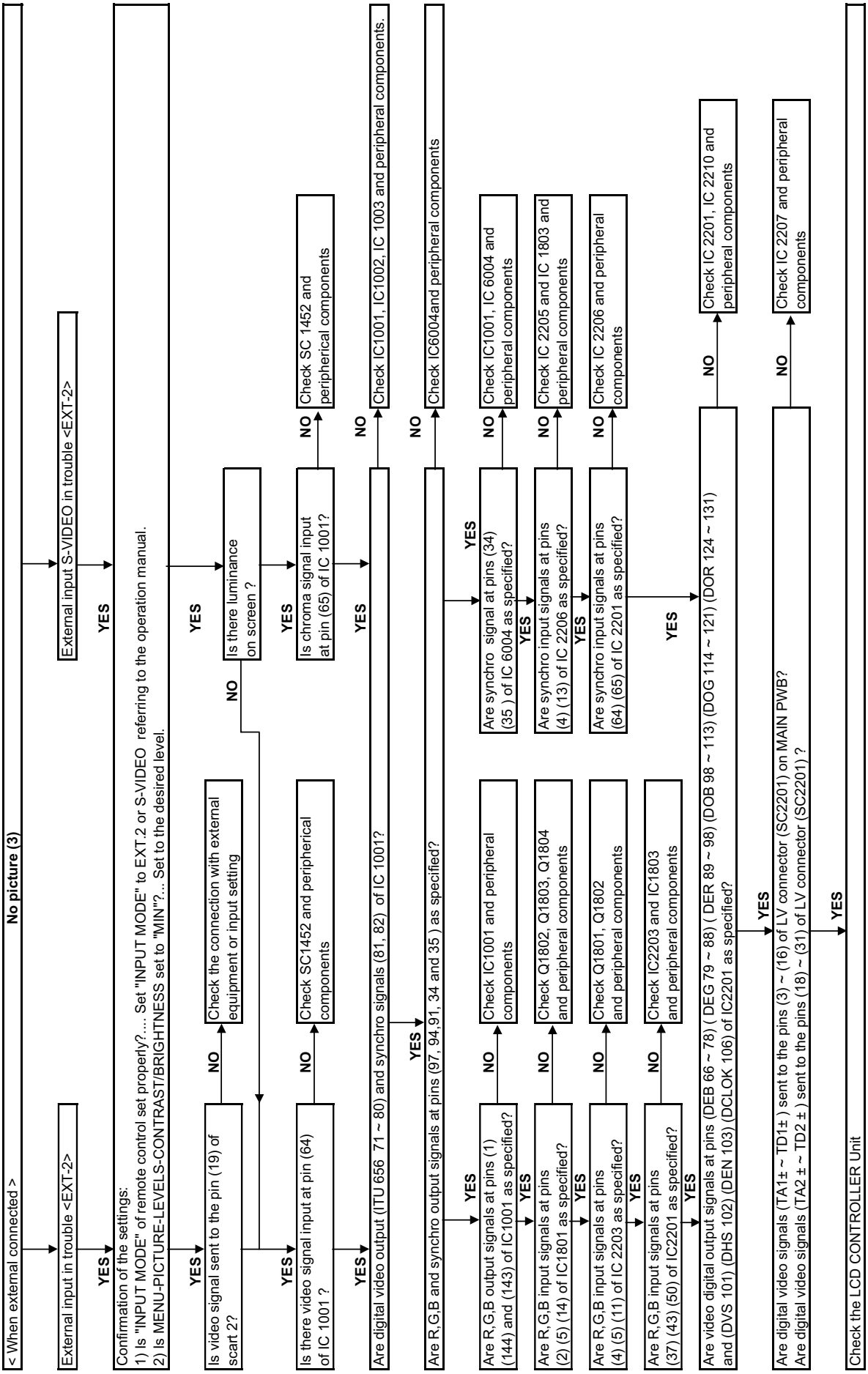
Troubleshooting Table (continued)


<On input of the tuner (U/V)>
No picture (1)
No picture appears on the reception of the tuner (U/V)
Confirmation of the settings:
1) Is "INPUT MODE" of remote control set properly?.... Set "INPUT MODE" to TV referring to the operation manual.
2) Is MENU-PICTURE-LEVELS-CONTRAST/BRIGHTNESS set to "MIN"?... Set to the desired level.
3) Is ANT-CABLE disconnected or is there a connector error?....Connect according to the operation manual.
YES
Is video signal (IF) sent from the pin (11) of TUNER(TU1201)?
NO
Check the tuner (TU1201) and its peripheral circuit
YES
Are video signals sent from the pins (4) and (5) of SF1201 (SAW FIL) ?
NO
Check the SF1201 and its peripheral circuits
YES
Are video signals (IF±) supplier to the pins (109)(110) IC1001 (VCTI)?
NO
Check SF1201 to the pins (109) (110) of IC1001 (VCTI) and peripheral circuits
YES
Are digital video output (ITU 656 71 ~ 80) and synchro signals (81, 82) of IC 1001?
NO
Check IC1001, IC1002, IC 1003 and peripheral components.
YES
Are R,G,B and synchro output signals at pins (97, 94,91, 34 and 35) as specified?
NO
Check IC6004and peripheral components
YES
Are R,G,B output signals at pins (1) (144) and (143) of IC1001 as specified?
NO
Check IC1001 and peripheral components
YES
Are synchro signal at pins (34) (35) of IC 6004 as specified?
NO
Check IC1001, IC 6004 and peripheral components
YES
Are R,G,B input signals at pins (2) (5) (14) of IC1801 as specified?
NO
Check Q1802, Q1803, Q1804 and peripheral components
YES
Are synchro input signals at pins (4) (13) of IC 2206 as specified?
NO
Check IC 2205 and IC 1803 and peripheral components
YES
Are R,G,B input signals at pins (14) (5) (11) of IC 2203 as specifeid?
NO
Check IC1801, IC1802 and peripheral components
YES
Are synchro input signals at pins (64) (65) of IC 2201 as specified?
NO
Check IC 2206 and peripheral components
YES
Are R,G,B input signals at pins (37) (43) (50) of IC2201 as specified?
NO
Check IC2203 and IC1803 and peripheral components
YES
Are video digital output signals at pins (DEB 66 ~ 78) (DEG 79 ~ 88) (DER 89 ~ 98) (DOB 98 ~ 113) (DOG 114 ~ 121) (DOR 124 ~ 131) and (DVS 101) (DHS 102) (DEN 103) (DCLOK 106) of IC2201 as specified?
NO
Check IC 2201, IC 2210 and peripheral components
YES
Are digital video signals (TA1± ~ TD1±) sent to the pins (3) ~ (16) of LV connector (SC2201) on MAIN PWB?
Are digital video signals (TA2 ± ~ TD2 ±) sent to the pins (18) ~ (31) of LV connector (SC2201) ?
NO
Check IC 2207 and peripheral components
YES
Check the LCD CONTROLLER Unit

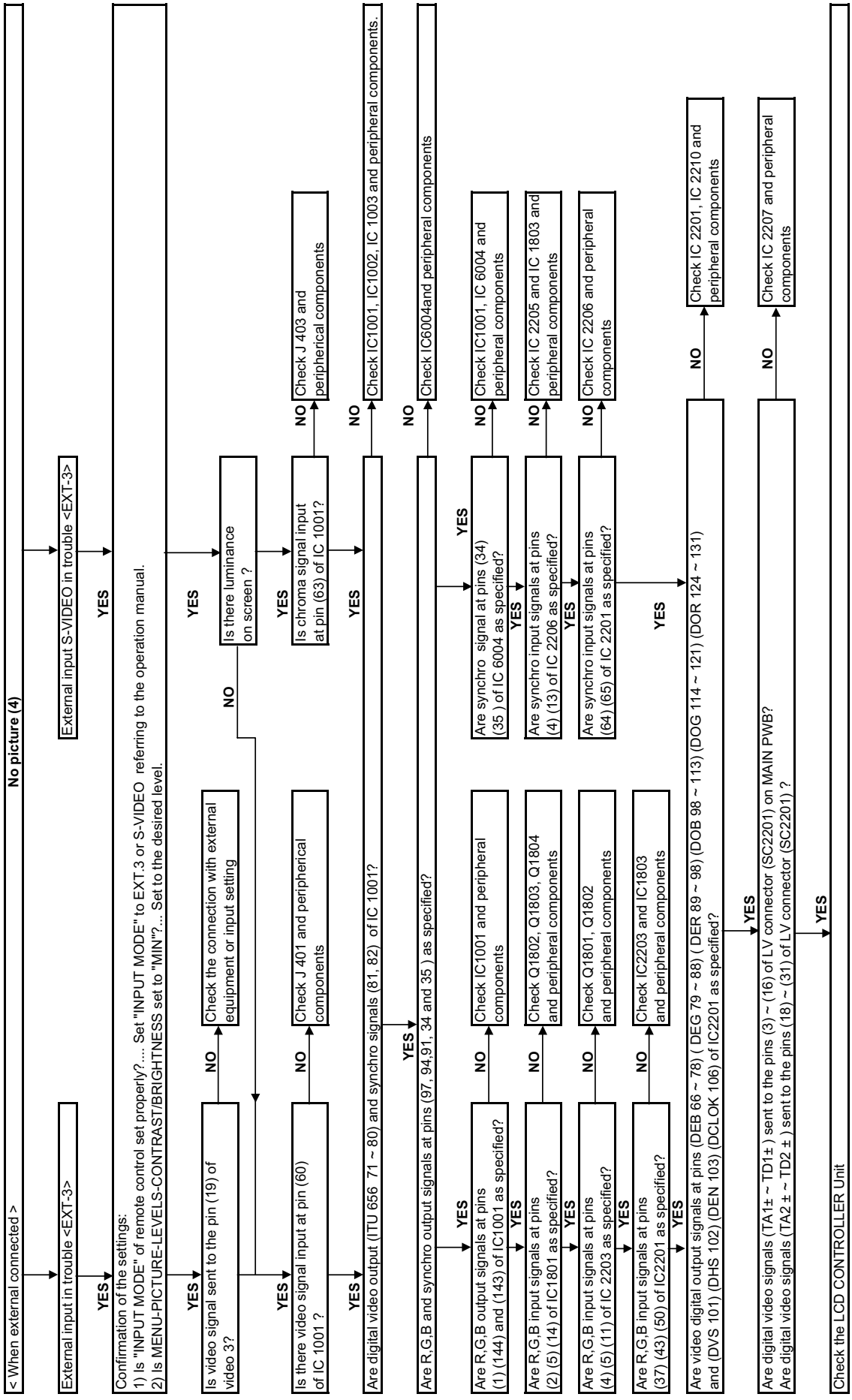
Troubleshooting Table (continued)


< When external connected >
No picture (2)
External input in trouble <EXT-1>
YES
External input R,G,B in trouble <EXT-1>
YES
Confirmation of the settings:
1) Is "INPUT MODE" of remote control set properly?.... Set "INPUT MODE" to EXT.1 referring to the operation manual.
2) Is MENU-PICTURE-LEVELS-CONTRAST/BRIGHTNESS set to "MIN"?... Set to the desired level.
YES
Is video signal sent to the pin (19) of scart 1?
NO
Check the connection with external equipment or input setting
YES
Is there R,G and B at pins 5 , 2 and 12 at IC1403 as specified ?
NO
Check SC 1451 connector and peripherical components.
YES
Is there video signal input at pin (66) of IC 1001 ?
NO
Check SC1451 and peripherical components
YES
Is there R, G and B signal input at pins 67, 68 and 69 of IC 1001 as specified ?
NO
Check IC 1403, Q 1412 and peripherical components
YES
Are digital video output (ITU 656 71 ~ 80) and synchro signals (81, 82) of IC 1001?
NO
Check IC1001, IC1002, IC 1003 and peripheral components.
YES
Are R,G,B and synchro output signals at pins (97, 94,91, 34 and 35) as specified?
NO
Check IC6004and peripheral components
YES
Are R,G,B output signals at pins (1) (144) and (143) of IC1001 as specified?
NO
Check IC1001 and peripheral components
YES
Are synchro signal at pins (34) (35) of IC 6004 as specified?
NO
Check IC1001, IC 6004 and peripheral components
YES
Are R,G,B input signals at pins (2) (5) (14) of IC1801 as specified?
NO
Check Q1802, Q1803, Q1804 and peripheral components
YES
Are synchro input signals at pins (4) (13) of IC 2206 as specified?
NO
Check IC 2205 and IC 1803 and peripheral components
YES
Are R,G,B input signals at pins (4) (5) (11) of IC 2203 as specified?
NO
Check Q1801, Q1802 and peripheral components
YES
Are synchro input signals at pins (64) (65) of IC 2201 as specified?
NO
Check IC 2206 and peripheral components
YES
Are R,G,B input signals at pins (37) (43) (50) of IC2201 as specified?
NO
Check IC2203 and IC1803 and peripheral components
YES
Are video digital output signals at pins (DEB 66 ~ 78) (DEG 79 ~ 88) (DER 89 ~ 98) (DOB 98 ~ 113) (DOG 114 ~ 121) (DOR 124 ~ 131) and (DVS 101) (DHS 102) (DEN 103) (DCLOK 106) of IC2201 as specified?
NO
Check IC 2201, IC 2210 and peripheral components
YES
Are digital video signals (TA1± ~ TD1±) sent to the pins (3) ~ (16) of LV connector (SC2201) on MAIN PWB?
Are digital video signals (TA2 ± ~ TD2 ±) sent to the pins (18) ~ (31) of LV connector (SC2201) ?
NO
Check IC 2207 and peripheral components
YES
Check the LCD CONTROLLER Unit

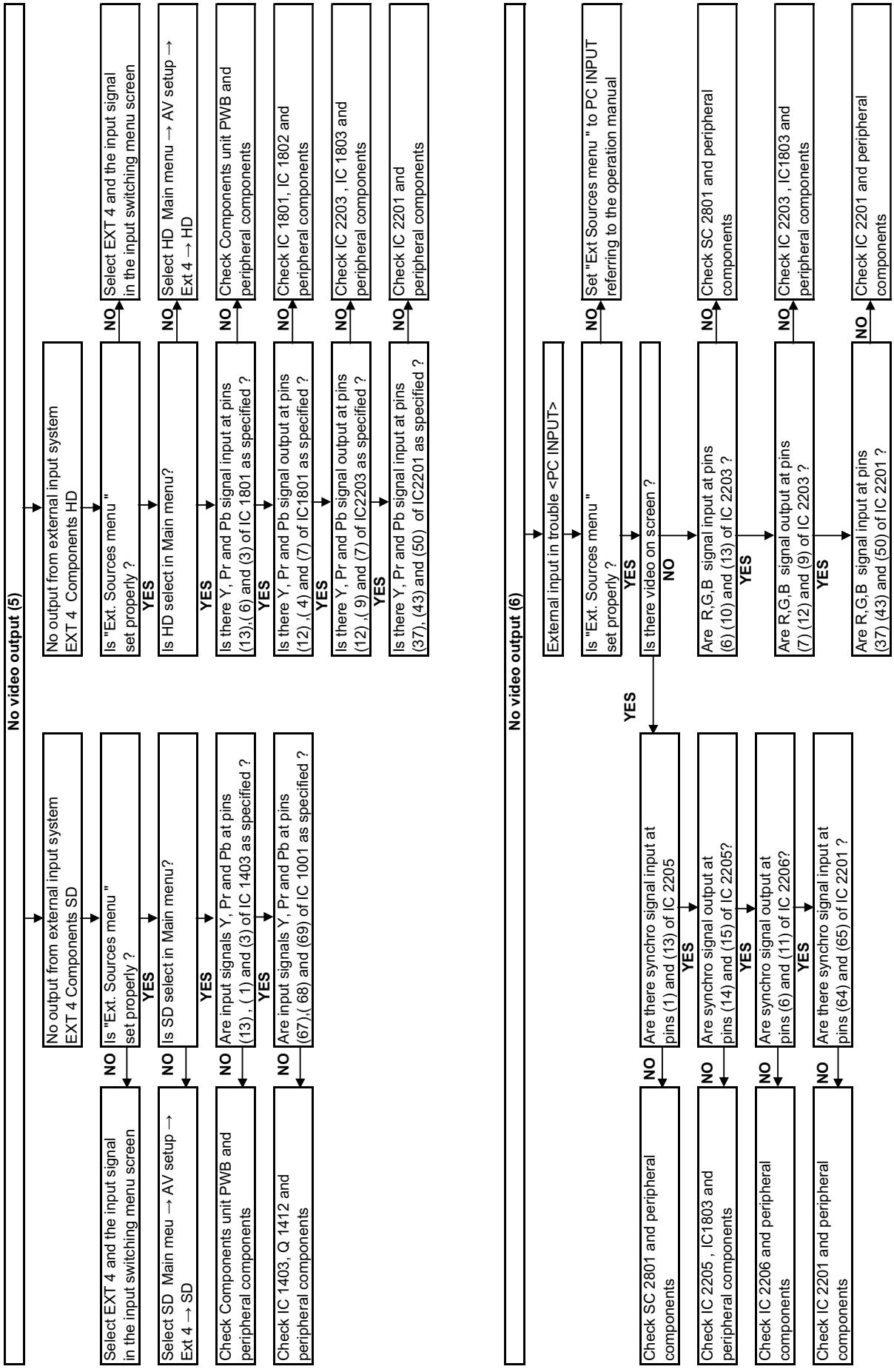
Troubleshooting Table (continued)


< When external connected >
No picture (3)
External input in trouble <EXT-2>
YES
External input S-VIDEO in trouble <EXT-2>
YES
Confirmation of the settings:
1) Is "INPUT MODE" of remote control set properly?.... Set "INPUT MODE" to EXT.2 or S-VIDEO referring to the operation manual.
2) Is MENU-PICTURE-LEVELS-CONTRAST/BRIGHTNESS set to "MIN"?... Set to the desired level.
YES
Is video signal sent to the pin (19) of scart 2?
NO
Check the connection with external equipment or input setting
YES
Is there video signal input at pin (64) of IC 1001 ?
NO
Check SC1452 and peripherical components
YES
Are digital video output (ITU 656 71 ~ 80) and synchro signals (81, 82) of IC 1001?
NO
Check IC1001, IC1002, IC 1003 and peripheral components.
YES
Are R,G,B and synchro output signals at pins (97, 94,91, 34 and 35) as specified?
NO
Check IC6004and peripheral components
YES
Are R,G,B output signals at pins (1) (144) and (143) of IC1001 as specified?
NO
Check IC1001 and peripheral components
YES
Are R,G,B input signals at pins (2) (5) (14) of IC1801 as specified?
NO
Check Q1802, Q1803, Q1804 and peripheral components
YES
Are R,G,B input signals at pins (4) (5) (11) of IC 2203 as specified?
NO
Check Q1801, Q1802 and peripheral components
YES
Are R,G,B input signals at pins (37) (43) (50) of IC2201 as specified?
NO
Check IC2203 and IC1803 and peripheral components
YES
Are video digital output signals at pins (DEB 66 ~ 78) (DEG 79 ~ 88) (DER 89 ~ 98) (DOB 98 ~ 113) (DOG 114 ~ 121) (DOR 124 ~ 131) and (DVS 101) (DHS 102) (DEN 103) (DCLOK 106) of IC2201 as specified?
NO
Check IC 2201, IC 2210 and peripheral components
YES
Are digital video signals (TA1± ~ TD1±) sent to the pins (3) ~ (16) of LV connector (SC2201) on MAIN PWB?
Are digital video signals (TA2 ± ~ TD2 ±) sent to the pins (18) ~ (31) of LV connector (SC2201) ?
NO
Check IC 2207 and peripheral components
YES
Check the LCD CONTROLLER Unit
YES
Is there luminance on screen ?
NO
YES
Is chroma signal input at pin (65) of IC 1001?
NO
Check SC 1452 and peripherical components
YES
Are synchro signal at pins (34) (35) of IC 6004 as specified?
NO
Check IC1001, IC 6004 and peripheral components
YES
Are synchro input signals at pins (4) (13) of IC 2206 as specified?
NO
Check IC 2205 and IC 1803 and peripheral components
YES
Are synchro input signals at pins (64) (65) of IC 2201 as specified?
NO
Check IC 2206 and peripheral components
YES

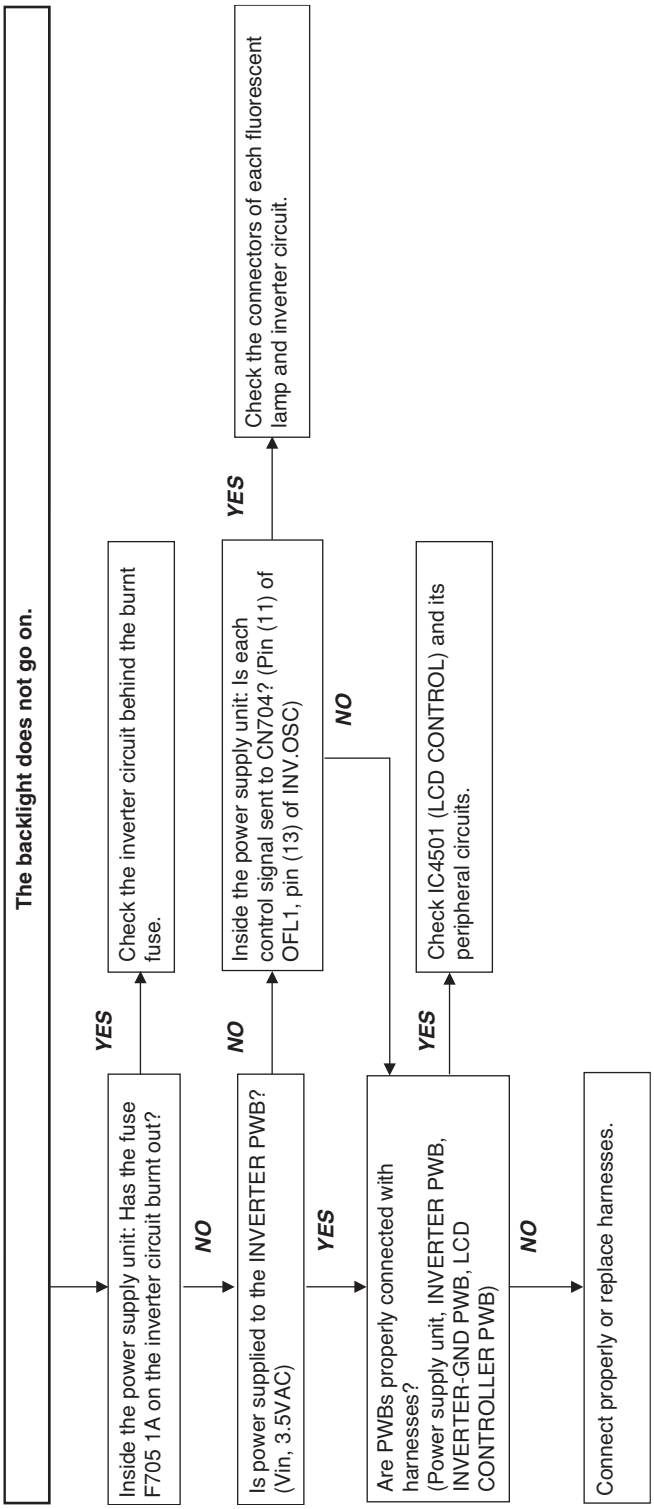
Troubleshooting Table (continued)


< When external connected >
No picture (4)
External input in trouble <EXT-3>
External input S-VIDEO in trouble <EXT-3>
YES
Confirmation of the settings:
1) Is "INPUT MODE" of remote control set properly?.... Set "INPUT MODE" to EXT.3 or S-VIDEO referring to the operation manual.
2) Is MENU-PICTURE-LEVELS-CONTRAST/BRIGHTNESS set to "MIN"?... Set to the desired level.
Is video signal sent to the pin (19) of video 3?
NO
Check the connection with external equipment or input setting
Is there luminance on screen ?
Is there video signal input at pin (60) of IC 1001 ?
Check J 401 and peripherical components
Is chroma signal input at pin (63) of IC 1001?
Check J 403 and peripherical components
Are digital video output (ITU 656 71 ~ 80) and synchro signals (81, 82) of IC 1001?
Check IC1001, IC1002, IC 1003 and peripheral components.
Are R,G,B and synchro output signals at pins (97, 94,91, 34 and 35) as specified?
Check IC6004and peripheral components
Are R,G,B output signals at pins (1) (144) and (143) of IC1001 as specified?
Check IC1001 and peripheral components
Are synchro signal at pins (34) (35) of IC 6004 as specified?
Check IC1001, IC 6004 and peripheral components
Are R,G,B input signals at pins (2) (5) (14) of IC1801 as specified?
Check Q1802, Q1803, Q1804 and peripheral components
Are synchro input signals at pins (4) (13) of IC 2206 as specified?
Check IC 2205 and IC 1803 and peripheral components
Are R,G,B input signals at pins (4) (5) (11) of IC 2203 as specified?
Check Q1801, Q1802 and peripheral components
Are synchro input signals at pins (64) (65) of IC 2201 as specified?
Check IC 2206 and peripheral components
Are R,G,B input signals at pins (37) (43) (50) of IC2201 as specified?
Check IC2203 and IC1803 and peripheral components
Are video digital output signals at pins (DEB 66 ~ 78) (DEG 79 ~ 88) (DER 89 ~ 98) (DOB 98 ~ 113) (DOG 114 ~ 121) (DOR 124 ~ 131) and (DVS 101) (DHS 102) (DEN 103) (DCLOK 106) of IC2201 as specified?
Check IC 2201, IC 2210 and peripheral components
Are digital video signals (TA1± ~ TD1±) sent to the pins (3) ~ (16) of LV connector (SC2201) on MAIN PWB?
Are digital video signals (TA2 ± ~ TD2 ±) sent to the pins (18) ~ (31) of LV connector (SC2201) ?
Check IC 2207 and peripheral components
Check the LCD CONTROLLER Unit

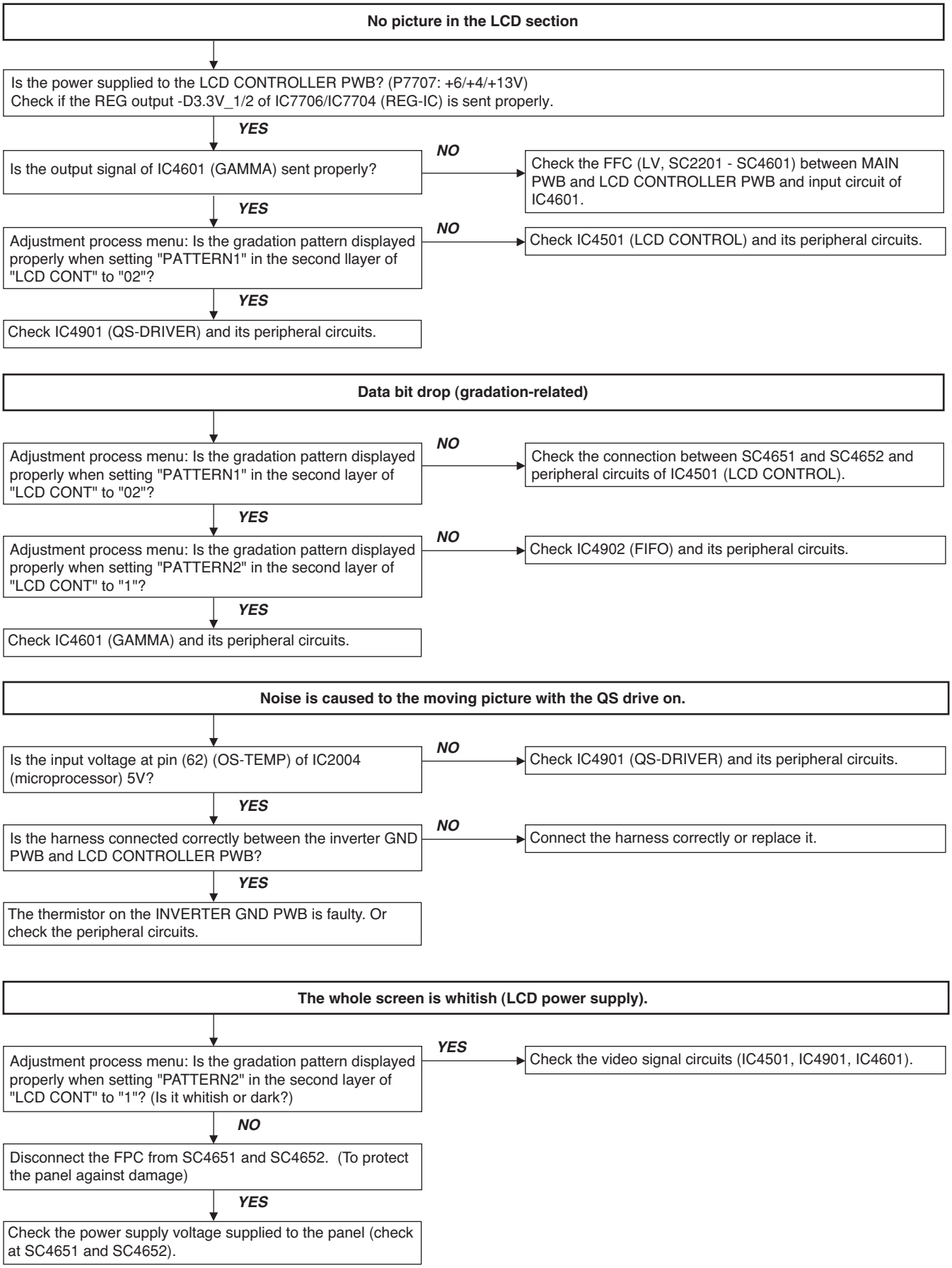
Troubleshooting Table (continued)


No video output (5)
No output from external input system EXT 4 Components SD
Select EXT 4 and the input signal in the input switching menu screen
NO
Is "Ext. Sources menu " set properly ?
YES
Select SD Main meu → AV setup → Ext 4 → SD
NO
Is SD select in Main menu?
YES
Check Components unit PWB and peripheral components
NO
Are input signals Y, Pr and Pb at pins (13) , (1) and (3) of IC 1403 as specified ?
YES
Check IC 1403, Q 1412 and peripheral components
NO
Are input signals Y, Pr and Pb at pins (67),(68) and (69) of IC 1001 as specified ?
No output from external input system EXT 4 Components HD
Select EXT 4 and the input signal in the input switching menu screen
NO
Is "Ext. Sources menu " set properly ?
YES
Select HD Main menu → AV setup → Ext 4 → HD
NO
Is HD select in Main menu?
YES
Check Components unit PWB and peripheral components
NO
Is there Y, Pr and Pb signal input at pins (13),(6) and (3) of IC 1801 as specified ?
YES
Check IC 1801, IC 1802 and peripheral components
NO
Is there Y, Pr and Pb signal output at pins (12) ,(4) and (7) of IC1801 as specified ?
YES
Check IC 2203 , IC 1803 and peripheral components
NO
Is there Y, Pr and Pb signal output at pins (12) ,(9) and (7) of IC2203 as specified ?
YES
Check IC 2201 and peripheral components
NO
Is there Y, Pr and Pb signal input at pins (37), (43) and (50) of IC2201 as specified ?
No video output (6)
External input in trouble <PC INPUT>
Set "Ext Sources menu " to PC INPUT referring to the operation manual
NO
Is "Ext. Sources menu " set properly ?
YES
Check SC 2801 and peripheral components
NO
Is there video on screen ?
NO
YES
Check IC 2205 , IC1803 and peripheral components
NO
Are there synchro signal input at pins (1) and (13) of IC 2205
YES
Check IC 2206 and peripheral components
NO
Are synchro signal output at pins (14) and (15) of IC 2205?
YES
Check IC 2201 and peripheral components
NO
Are synchro signal output at pins (6) and (11) of IC 2206?
YES
Check SC 2801 and peripheral components
NO
Are R,G,B signal input at pins (6) (10) and (13) of IC 2203 ?
YES
Check IC 2203 , IC1803 and peripheral components
NO
Are R,G,B signal output at pins (7) (12) and (9) of IC 2203 ?
YES
Check IC 2201 and peripheral components
NO
Are there synchro signal input at pins (64) and (65) of IC 2201 ?
Are R,G,B signal input at pins (37) (43) and (50) of IC 2201 ?
NO

Troubleshooting Table (continued)

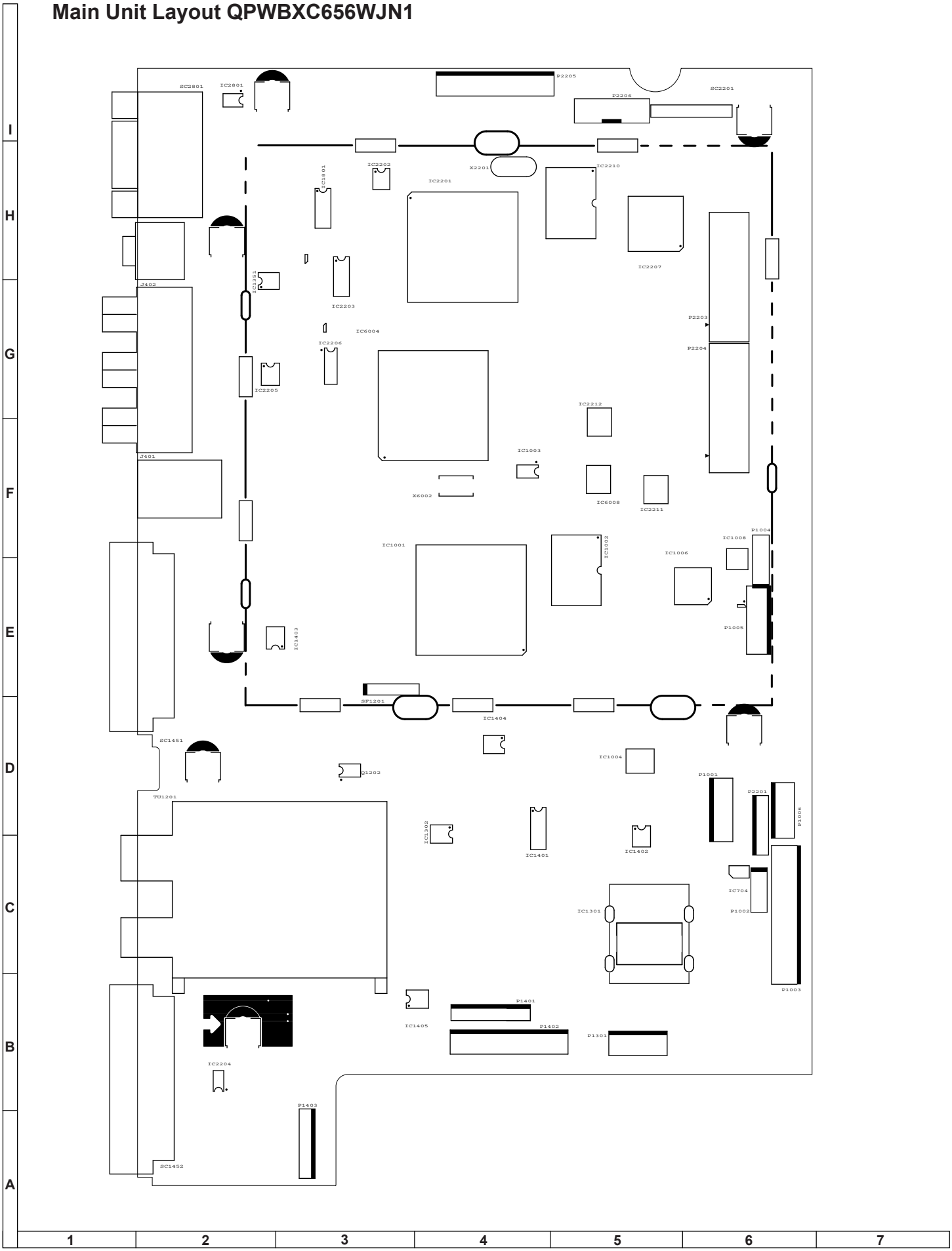

The backlight does not go on.
Inside the power supply unit: Has the fuse F705 1A on the inverter circuit burnt out?
YES
Check the inverter circuit behind the burnt fuse.
NO
Is power supplied to the INVERTER PWB? (Vin, 3.5VAC)
NO
Inside the power supply unit: Is each control signal sent to CN704? (Pin (11) of OFL1, pin (13) of INV.OSC)
YES
Check the connectors of each fluorescent lamp and inverter circuit.
YES
Are PWBs properly connected with harnesses? (Power supply unit, INVERTER PWB, INVERTER-GND PWB, LCD CONTROLLER PWB)
NO
Connect properly or replace harnesses.
YES
Check IC4501 (LCD CONTROL) and its peripheral circuits.
NO

Troubleshooting Table (continued)

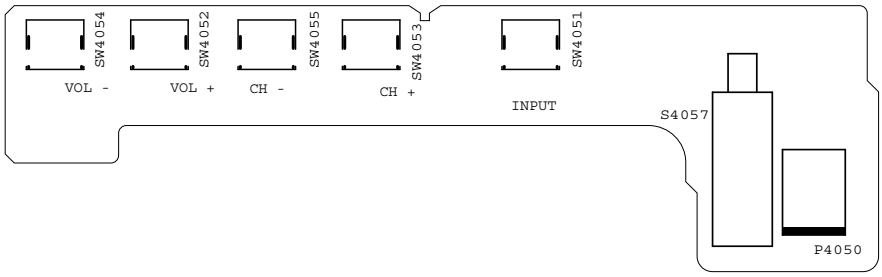

No picture in the LCD section
Is the power supplied to the LCD CONTROLLER PWB? (P7707: +6/+4/+13V)
Check if the REG output -D3.3V_1/2 of IC7706/IC7704 (REG-IC) is sent properly.
YES
Is the output signal of IC4601 (GAMMA) sent properly?
NO
Check the FFC (LV, SC2201 - SC4601) between MAIN PWB and LCD CONTROLLER PWB and input circuit of IC4601.
YES
Adjustment process menu: Is the gradation pattern displayed properly when setting "PATTERN1" in the second llayer of "LCD CONT" to "02"?
NO
Check IC4501 (LCD CONTROL) and its peripheral circuits.
YES
Check IC4901 (QS-DRIVER) and its peripheral circuits.
Data bit drop (gradation-related)
Adjustment process menu: Is the gradation pattern displayed properly when setting "PATTERN1" in the second layer of "LCD CONT" to "02"?
NO
Check the connection between SC4651 and SC4652 and peripheral circuits of IC4501 (LCD CONTROL).
YES
Adjustment process menu: Is the gradation pattern displayed properly when setting "PATTERN2" in the second layer of "LCD CONT" to "1"?
NO
Check IC4902 (FIFO) and its peripheral circuits.
YES
Check IC4601 (GAMMA) and its peripheral circuits.
Noise is caused to the moving picture with the QS drive on.
Is the input voltage at pin (62) (OS-TEMP) of IC2004 (microprocessor) 5V?
NO
Check IC4901 (QS-DRIVER) and its peripheral circuits.
YES
Is the harness connected correctly between the inverter GND PWB and LCD CONTROLLER PWB?
NO
Connect the harness correctly or replace it.
YES
The thermistor on the INVERTER GND PWB is faulty. Or check the peripheral circuits.
The whole screen is whitish (LCD power supply).
Adjustment process menu: Is the gradation pattern displayed properly when setting "PATTERN2" in the second layer of "LCD CONT" to "1"? (Is it whitish or dark?)
YES
Check the video signal circuits (IC4501, IC4901, IC4601).
NO
Disconnect the FPC from SC4651 and SC4652. (To protect the panel against damage)
YES
Check the power supply voltage supplied to the panel (check at SC4651 and SC4652).

CHASSIS LAYOUT

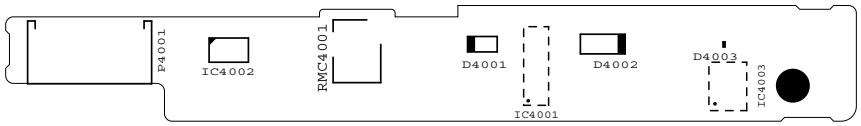
Main Unit Layout QPWBXC656WJN1



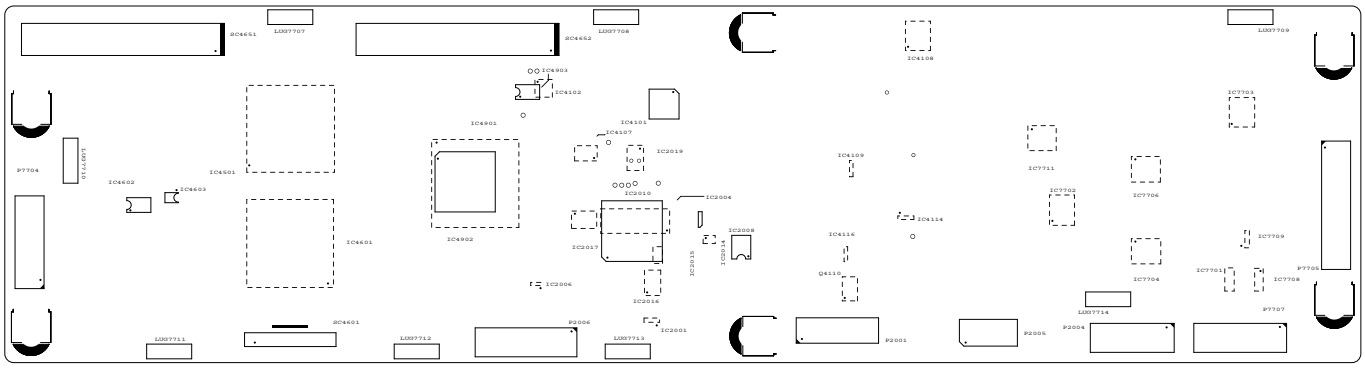
Operation Unit Layout QPWBXC864WJN1



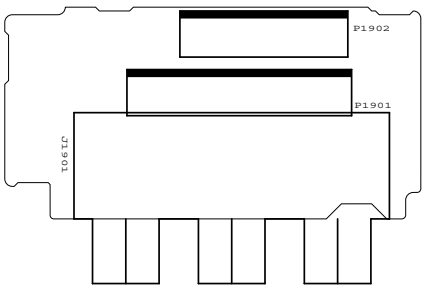
RC / LED Unit Layout QPWBXC865WJN1



LCD Control Unit Layout QPWBXC919WJN1

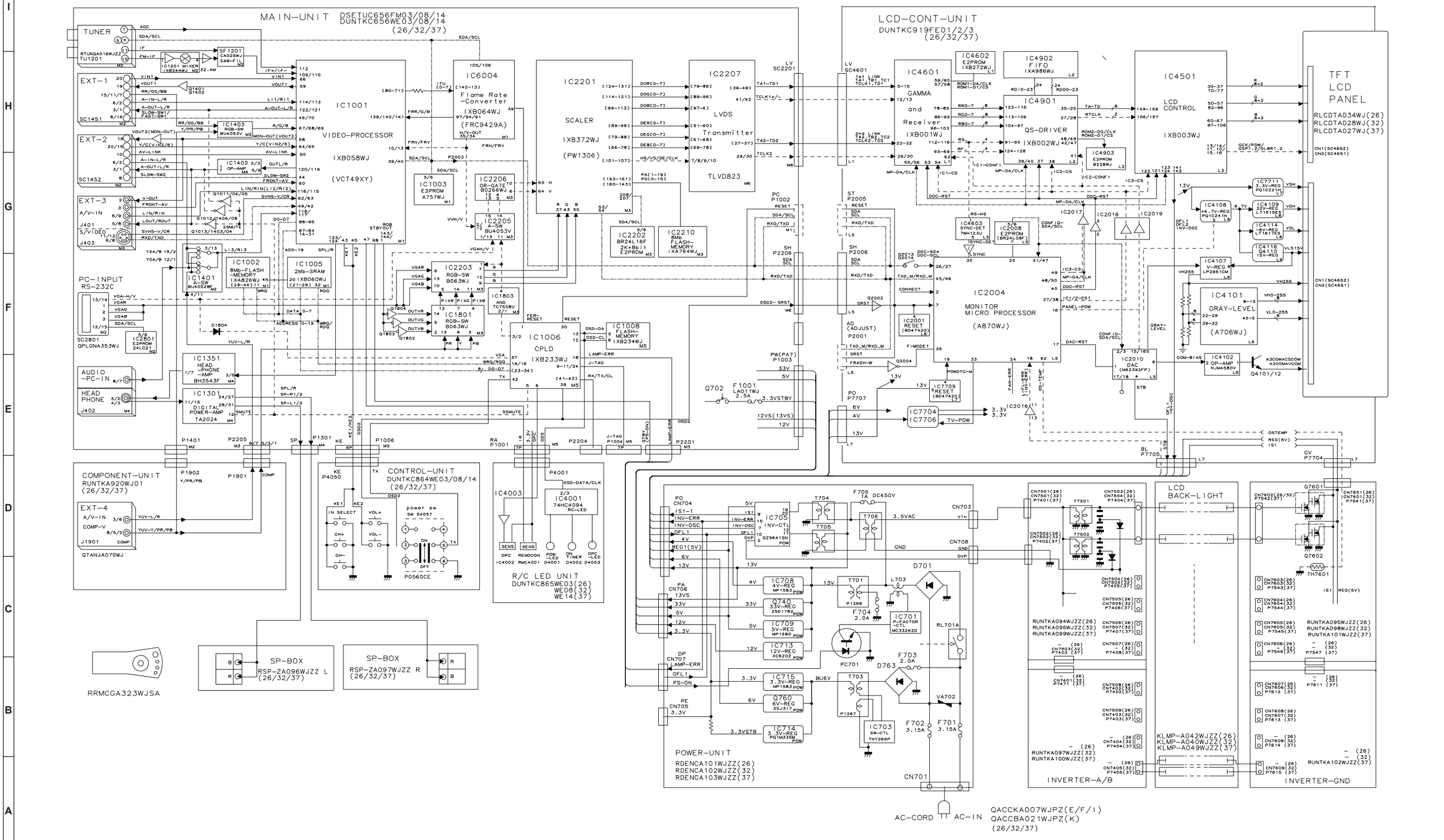


YUV Unit Layout QPWBXC920WJN1



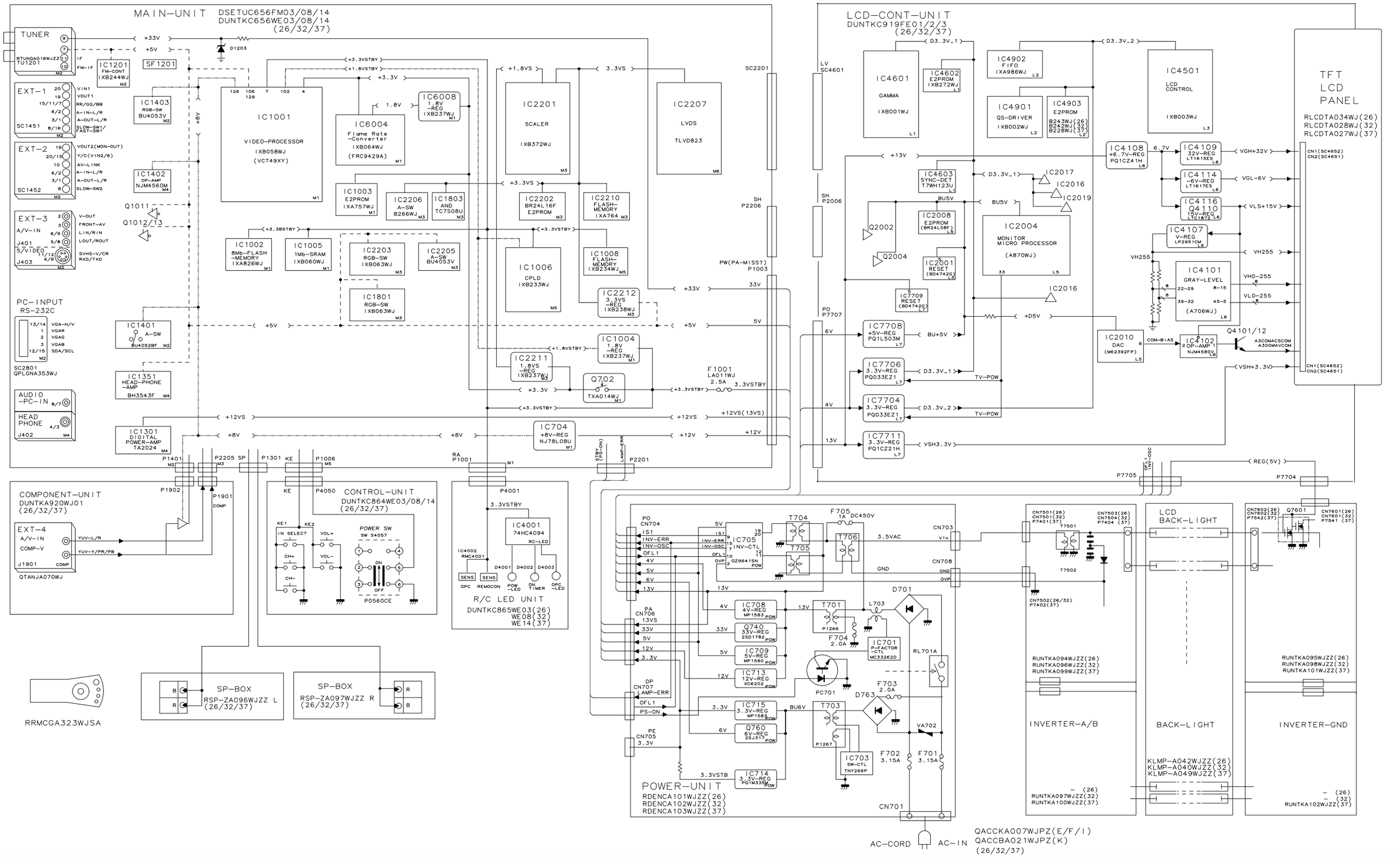
BLOCK DIAGRAMS

Block Diagram



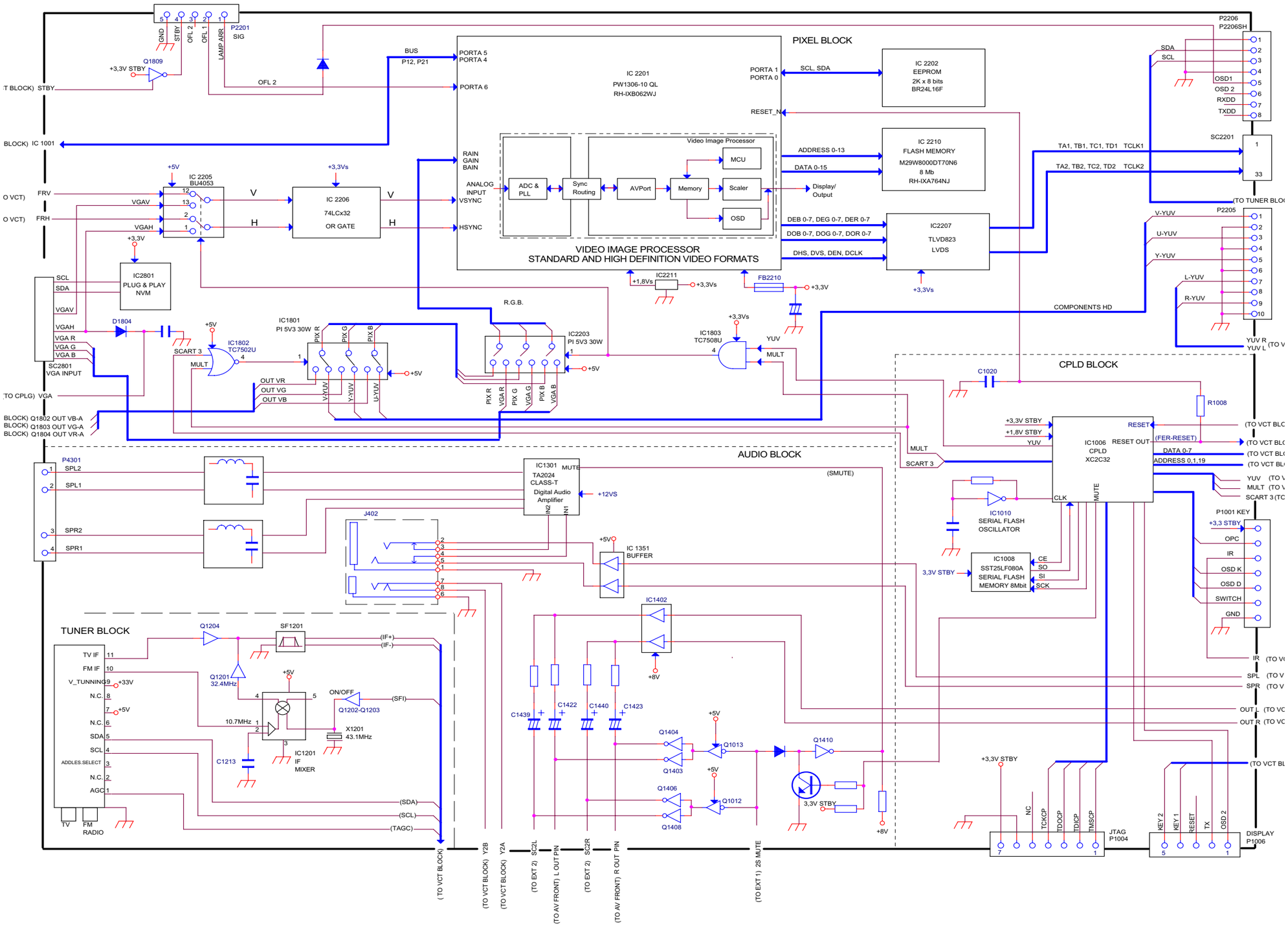
BLOCK DIAGRAMS

Power Block Diagram

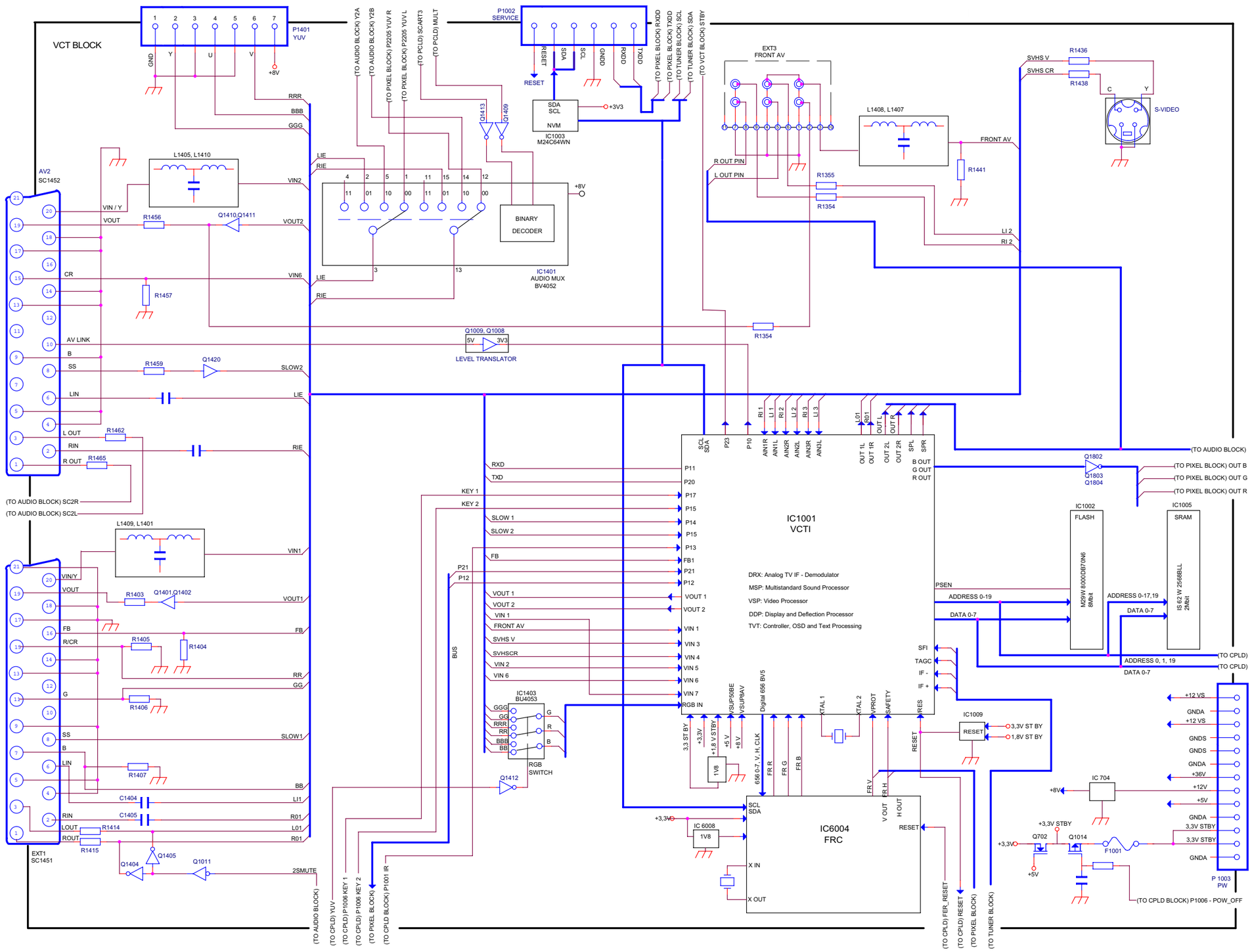


BLOCK DIAGRAMS

Detailed Mother Unit Block Diagram 1/2

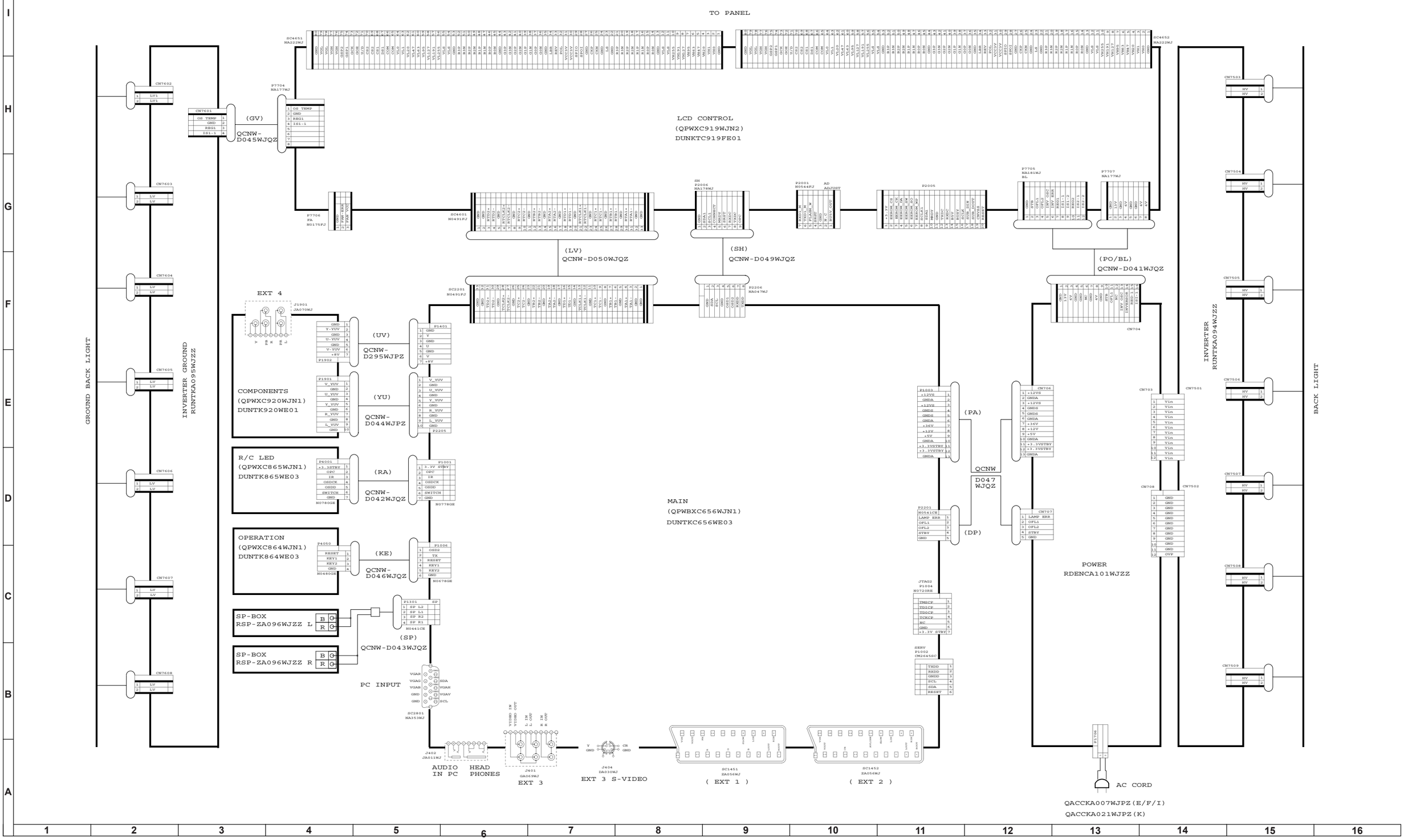


Detailed Mother Unit Block Diagram 2/2



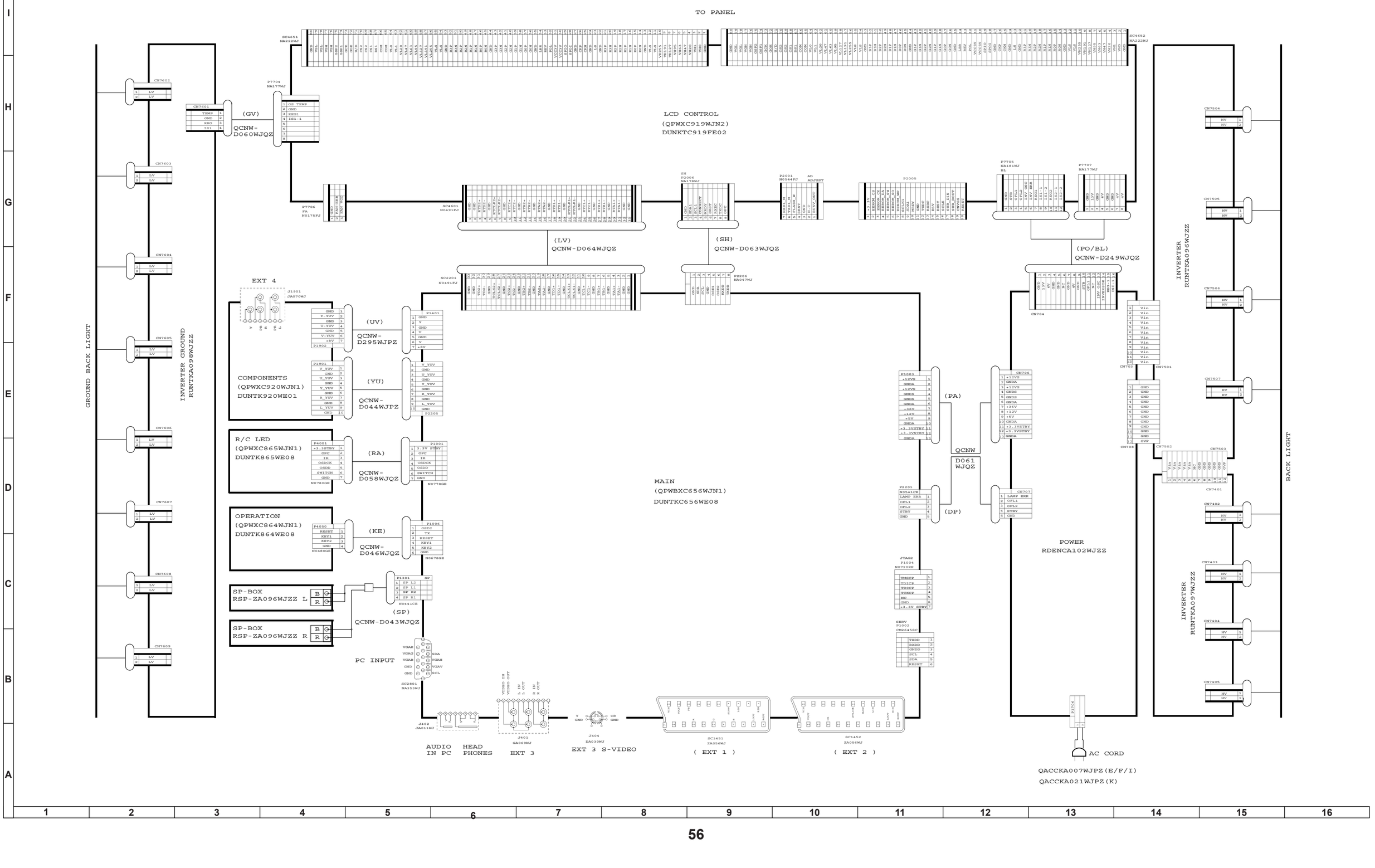
OVERALL WIRING DIAGRAMS

LC-26GA5E Overall Wiring Diagram



OVERALL WIRING DIAGRAMS

LC-32GA5E Overall Wiring Diagram



SCHEMATIC DIAGRAMS

Description:

VOLTAGE MEASUREMENT CONDITION:

1. The voltages at test points are measured on exclusive AC adaptor and the stable supply voltage of AC 230V. Signals are fed by a color bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω " is omitted. (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/16W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.

Ⓒ: Solid Ⓦ: Cement
Ⓢ: Oxide Film Ⓣ: Special
Ⓝ: Metal Coating

CAPACITOR

1. All capacitors are μF, unless otherwise noted. (P=pF=μμ F).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted.

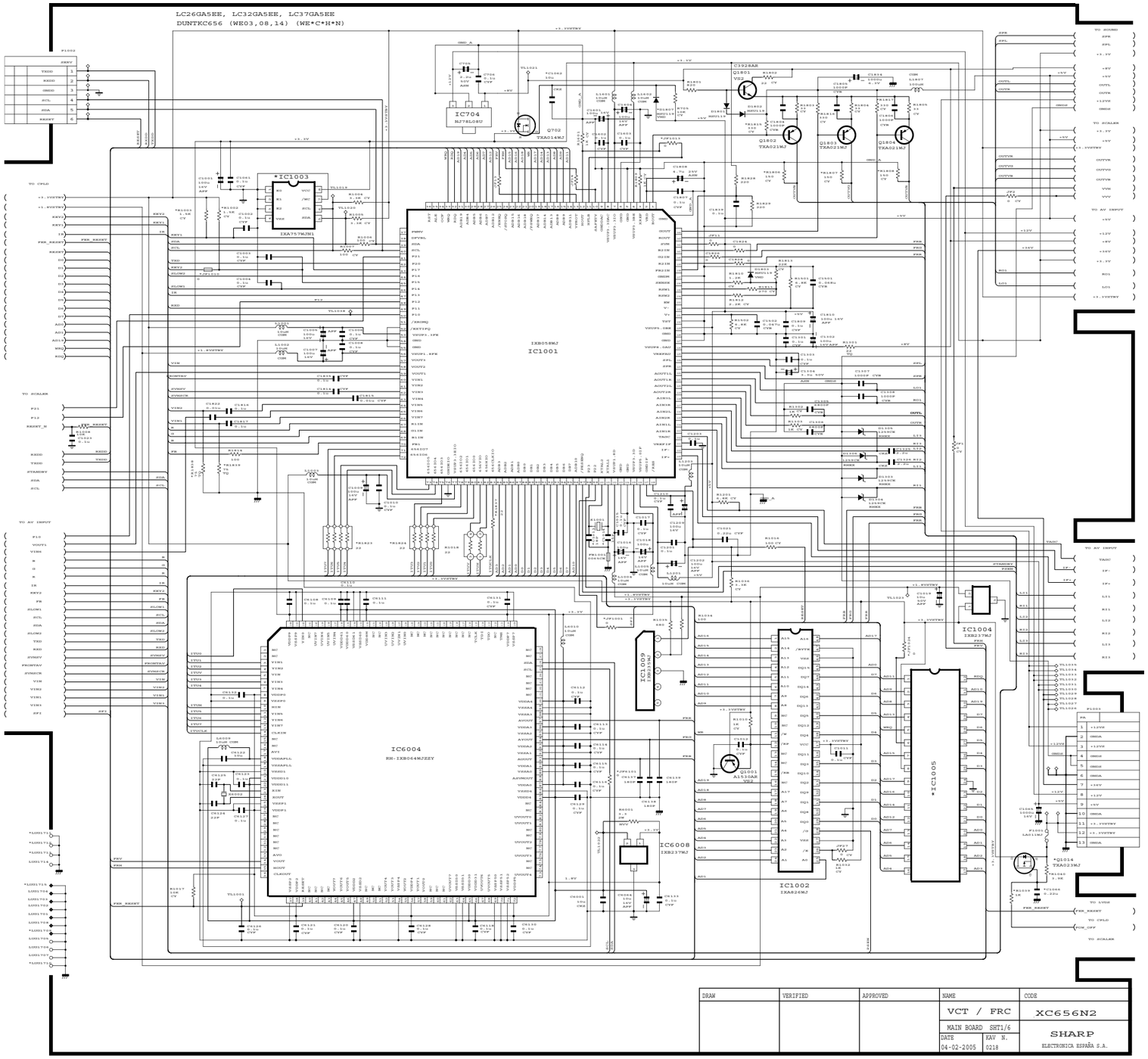
(ML): Mylar (TA): Tantalum
(PF): Polypro Film (ST): Styrol

CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

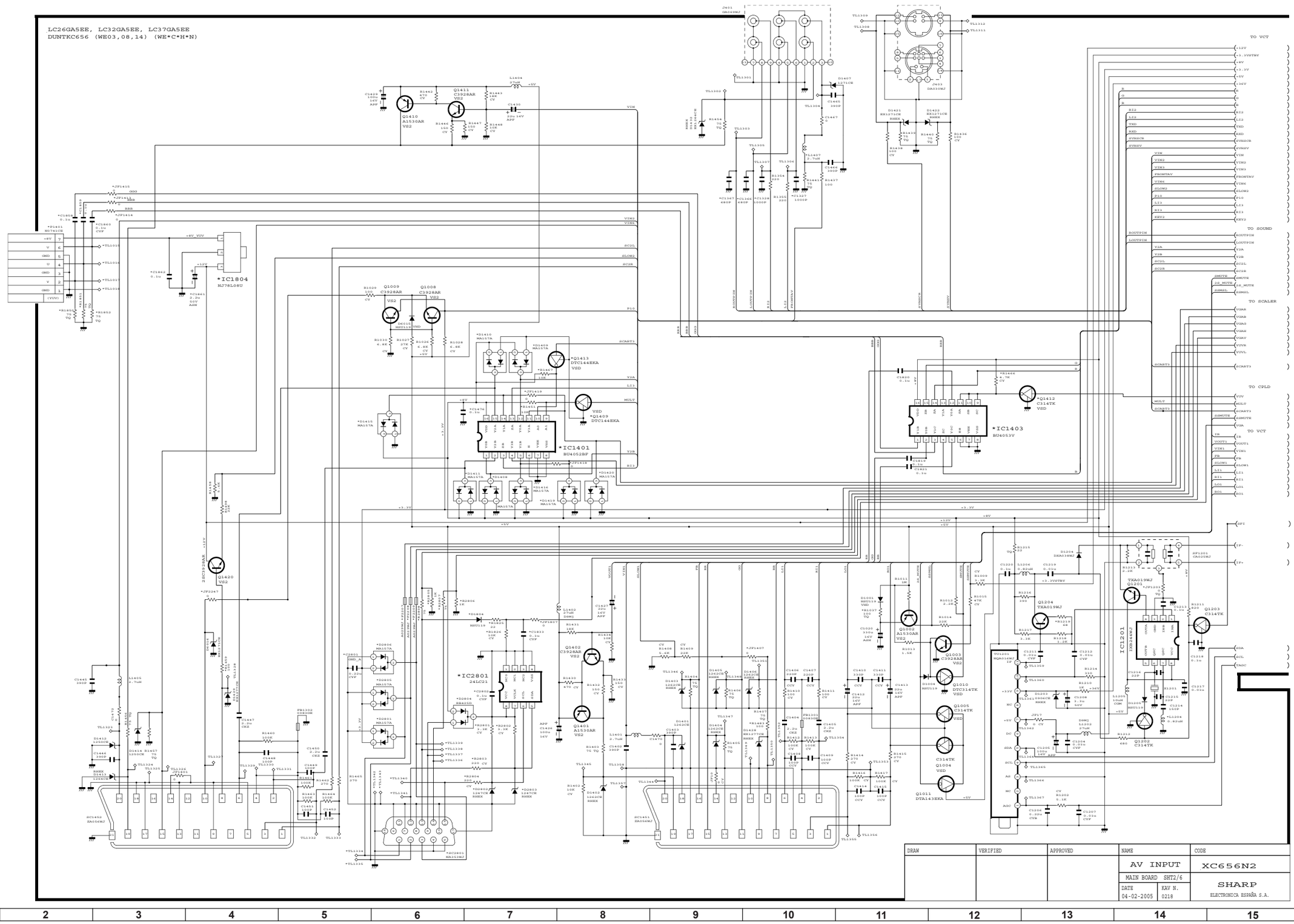
IMPORTANT SAFETY NOTICE:
PARTS MARKED WITH "⚠ " ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

SCHEMATIC DIAGRAMS

Main Unit Diagram 1/6 (VCT / FRC)



Main Unit Diagram 2/6 (AV INPUT)



Main Unit Diagram 3/6 (SCALER)

LC26GA5EE, LC32GA5EE, LC37GA5EE
DUNTKC656 (WE03,08,14) (WE*C*H*N)

IC2201
IXB062WJ

IC2202
BR24L16F

*IC1801
IXB063WJ

*IC1802
IC7S08U

*IC1803
IC7S08U

*IC2203
IXB063WJ

*IC2205
BU4053V

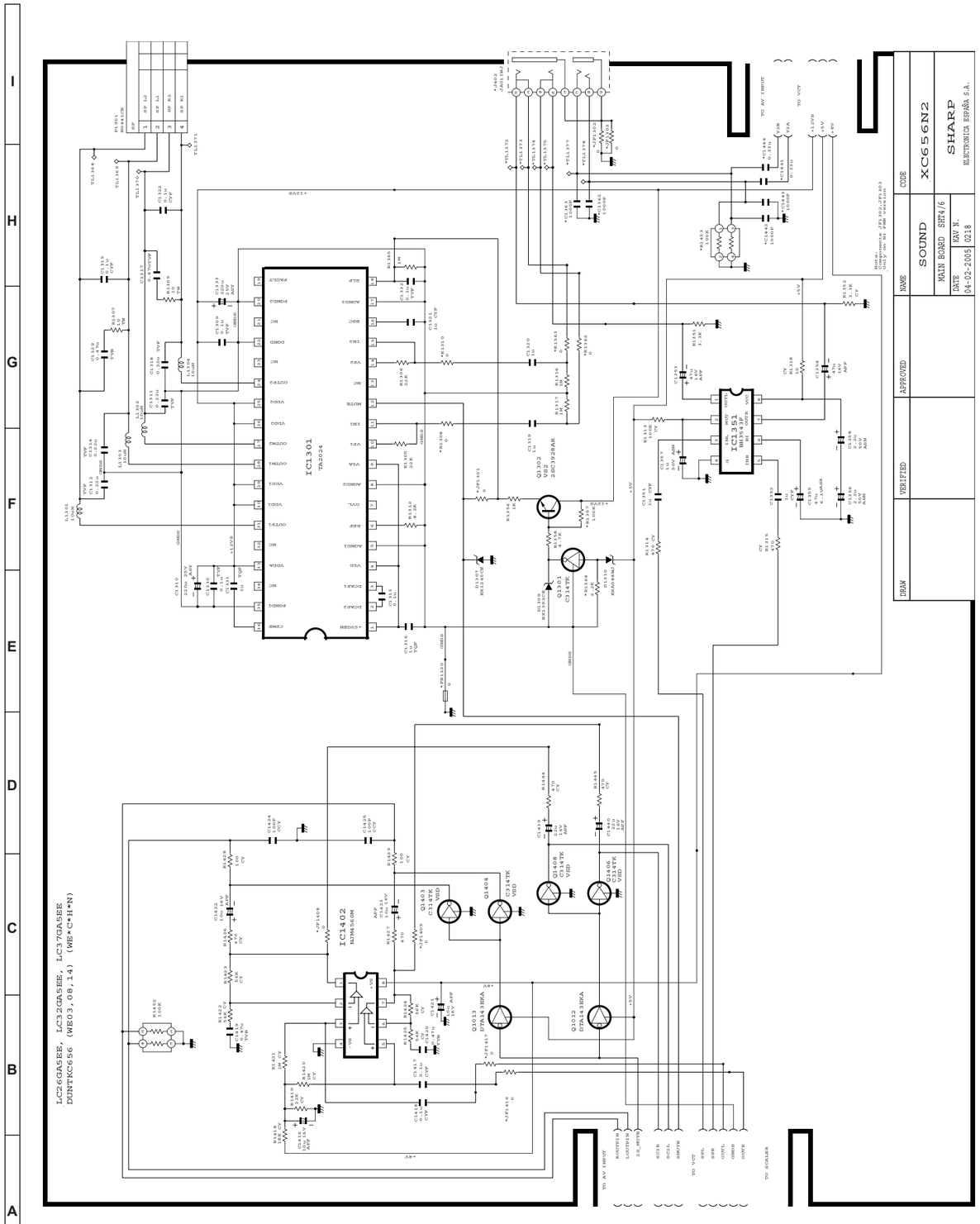
IC2206

IC2210
IXA764WJ

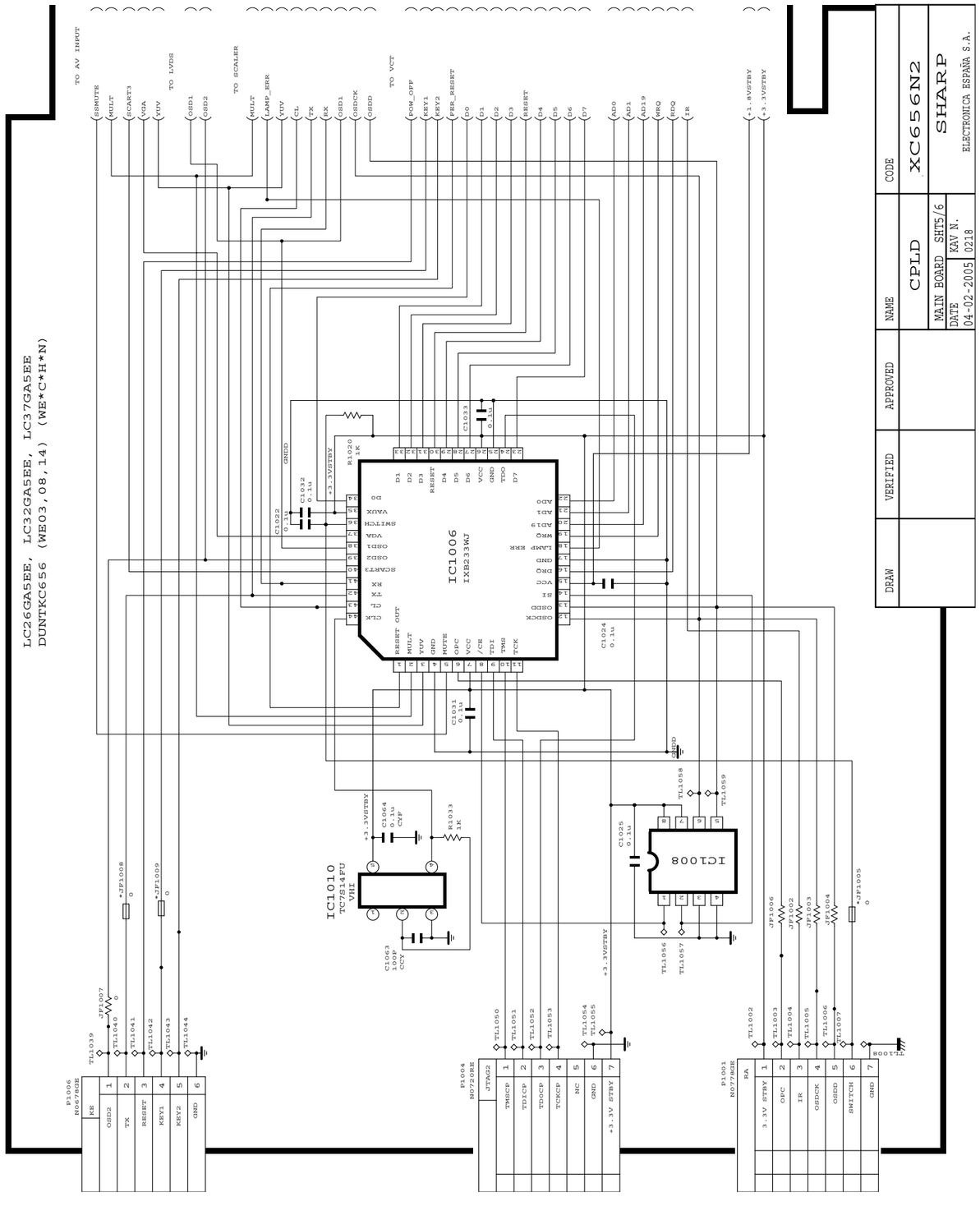
IC2211
IXB237WJ

DRAW	VERIFIED	APPROVED	NAME	CODE
			SCALER	XC656N2
			MAIN BOARD SHT3/6	SHARP
			DATE 04-02-2005 / KAV N. 0218	ELECTRONICA ESPAÑA S.A.

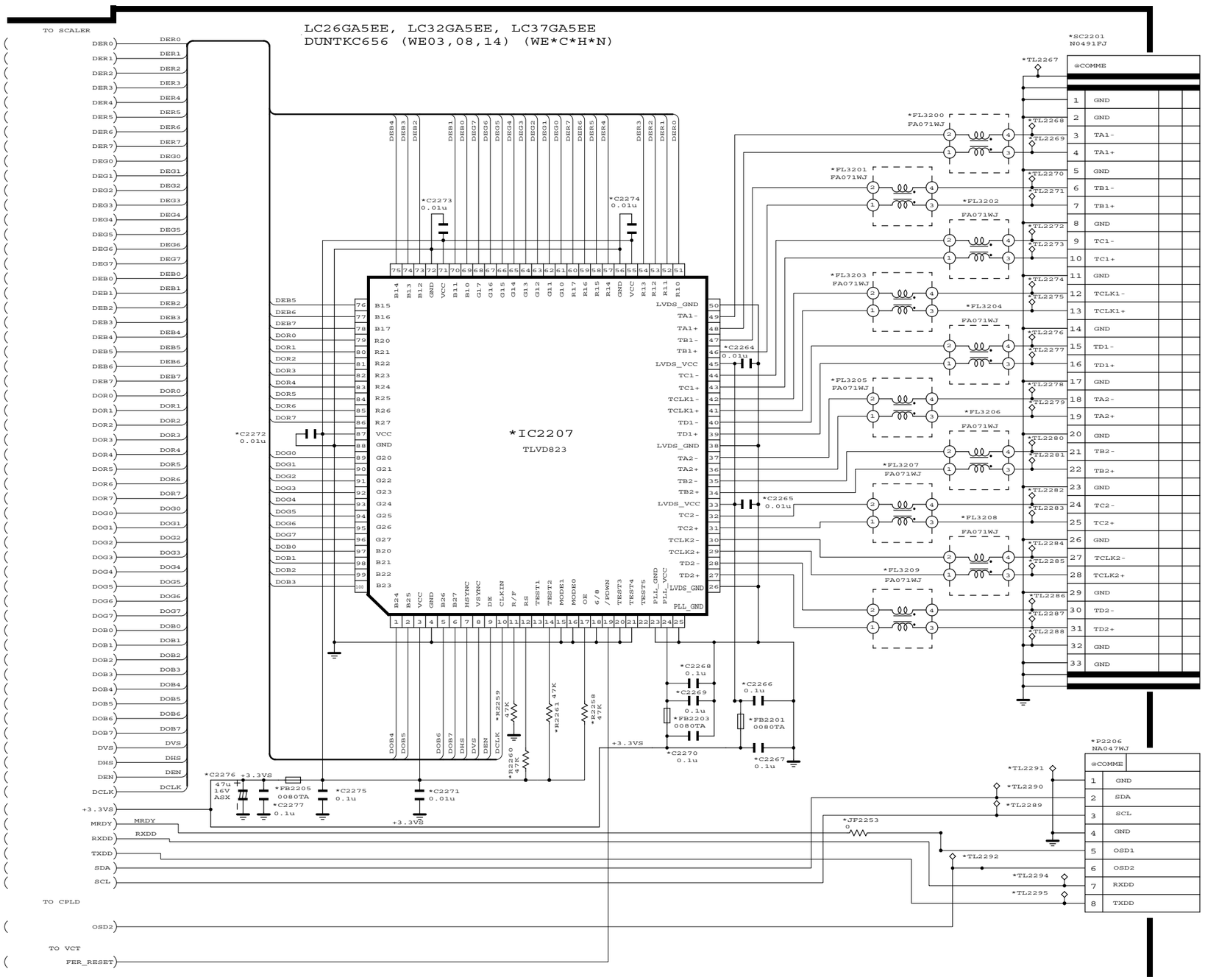
Main Unit Diagram 4/6 (SOUND)



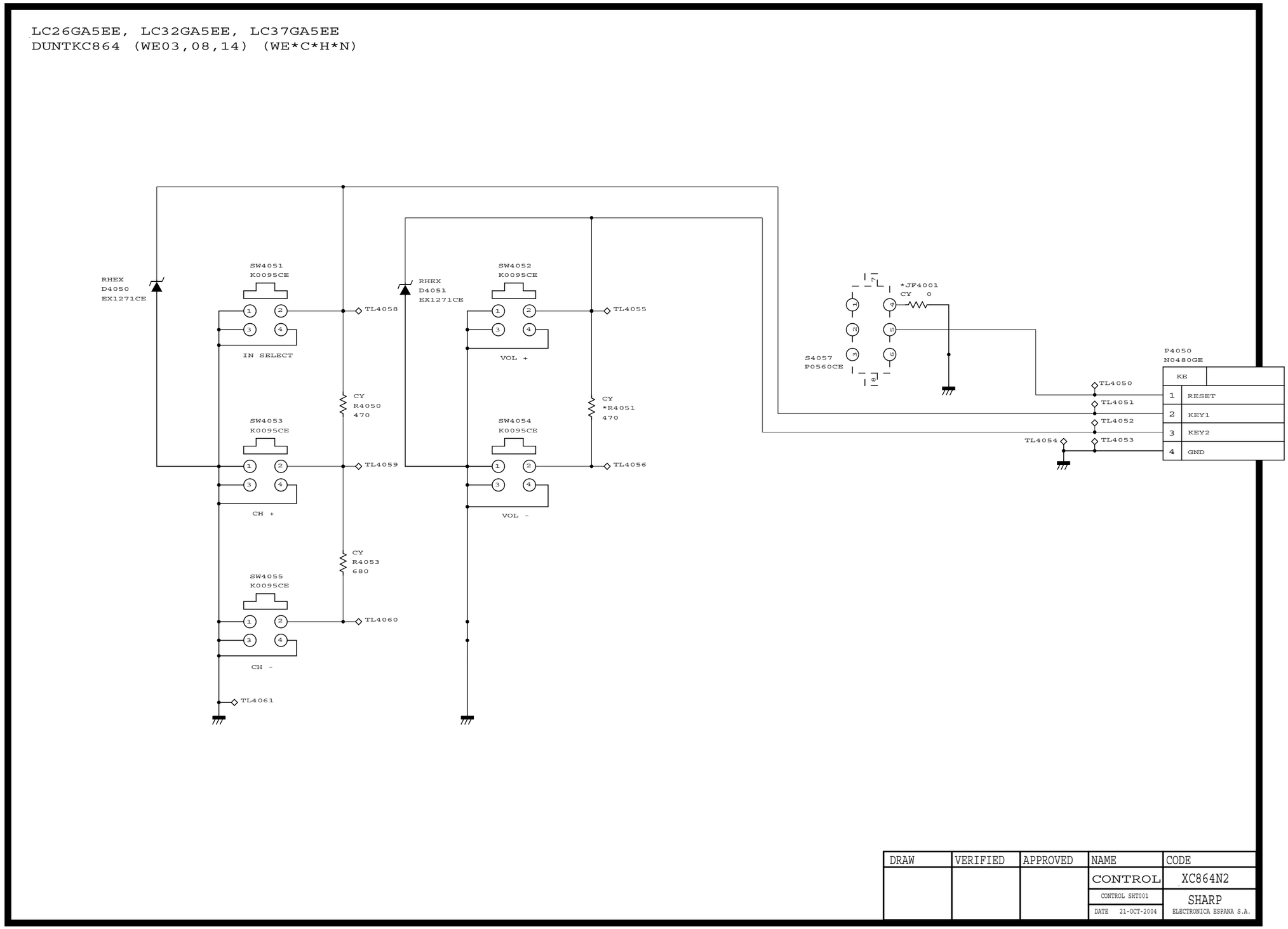
Main Unit Diagram 5/6 (CPLD)



Main Unit Diagram 6/6 (LVDS)

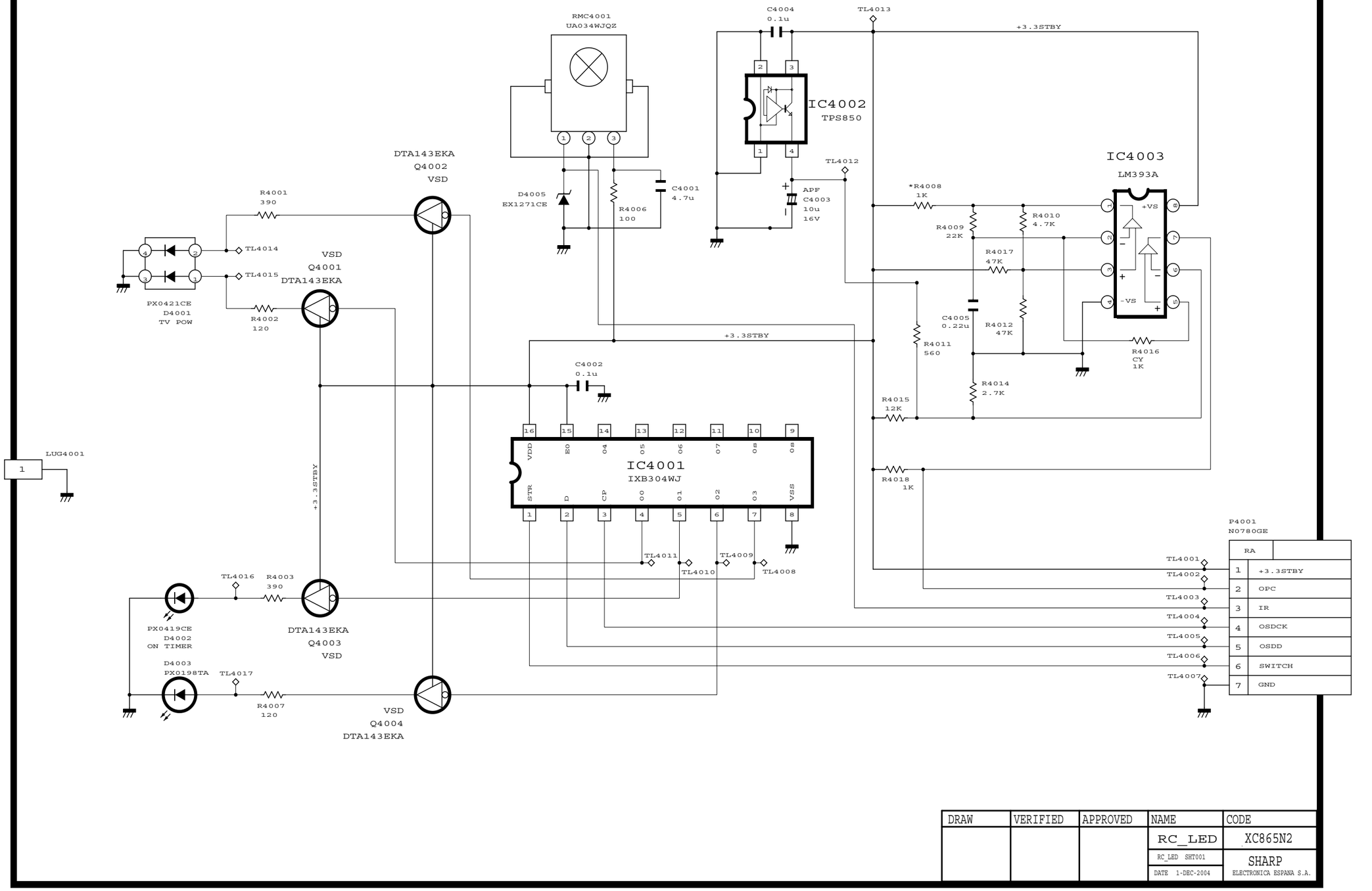


Operation Unit Diagram (CONTROL)



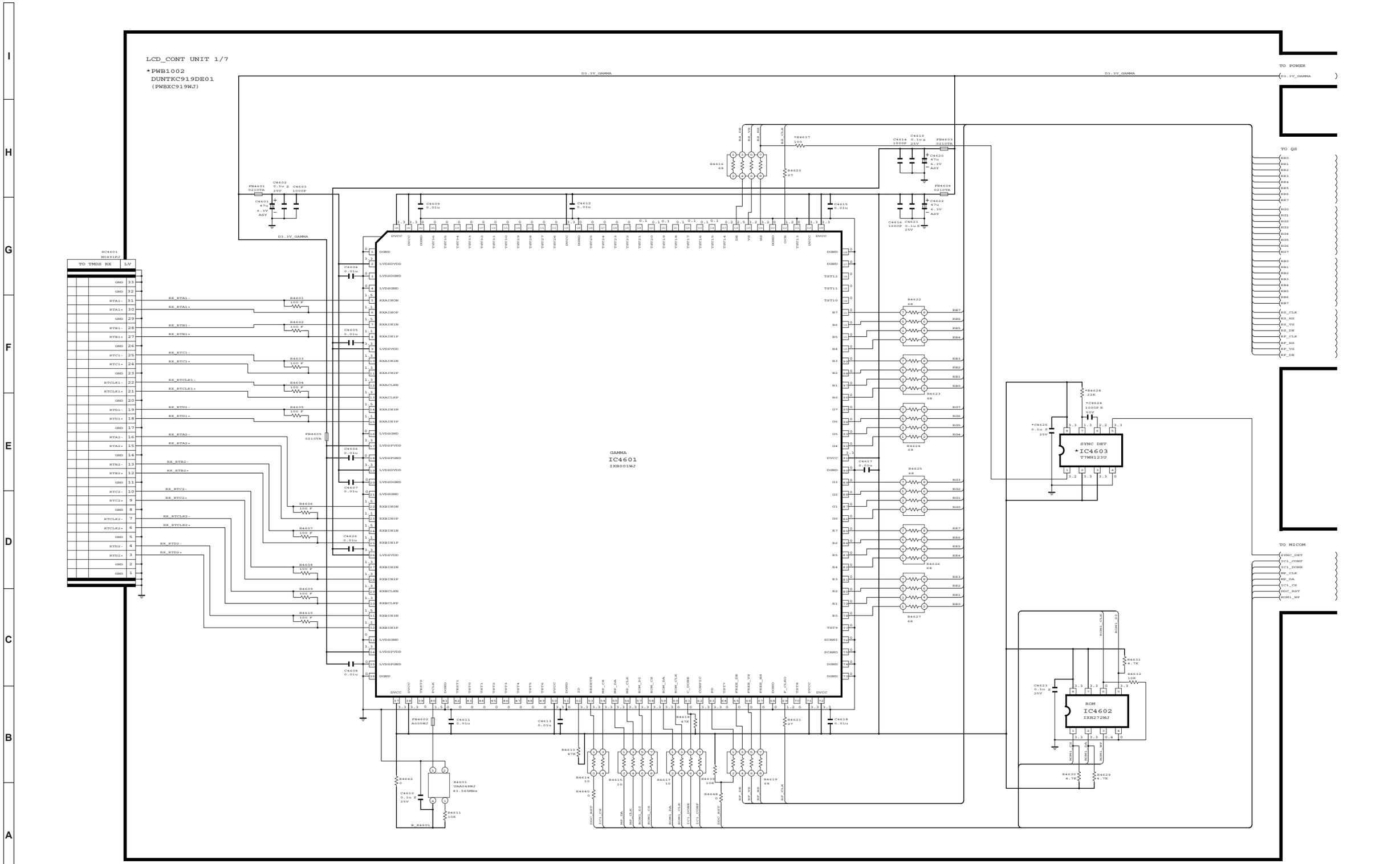
RC / Led Unit Diagram (RC_LED)

LC26GA5EE, LC32GA5EE, LC37GA5EE
DUNTKC865 (WE03,08,14) (WE*C*H*N)

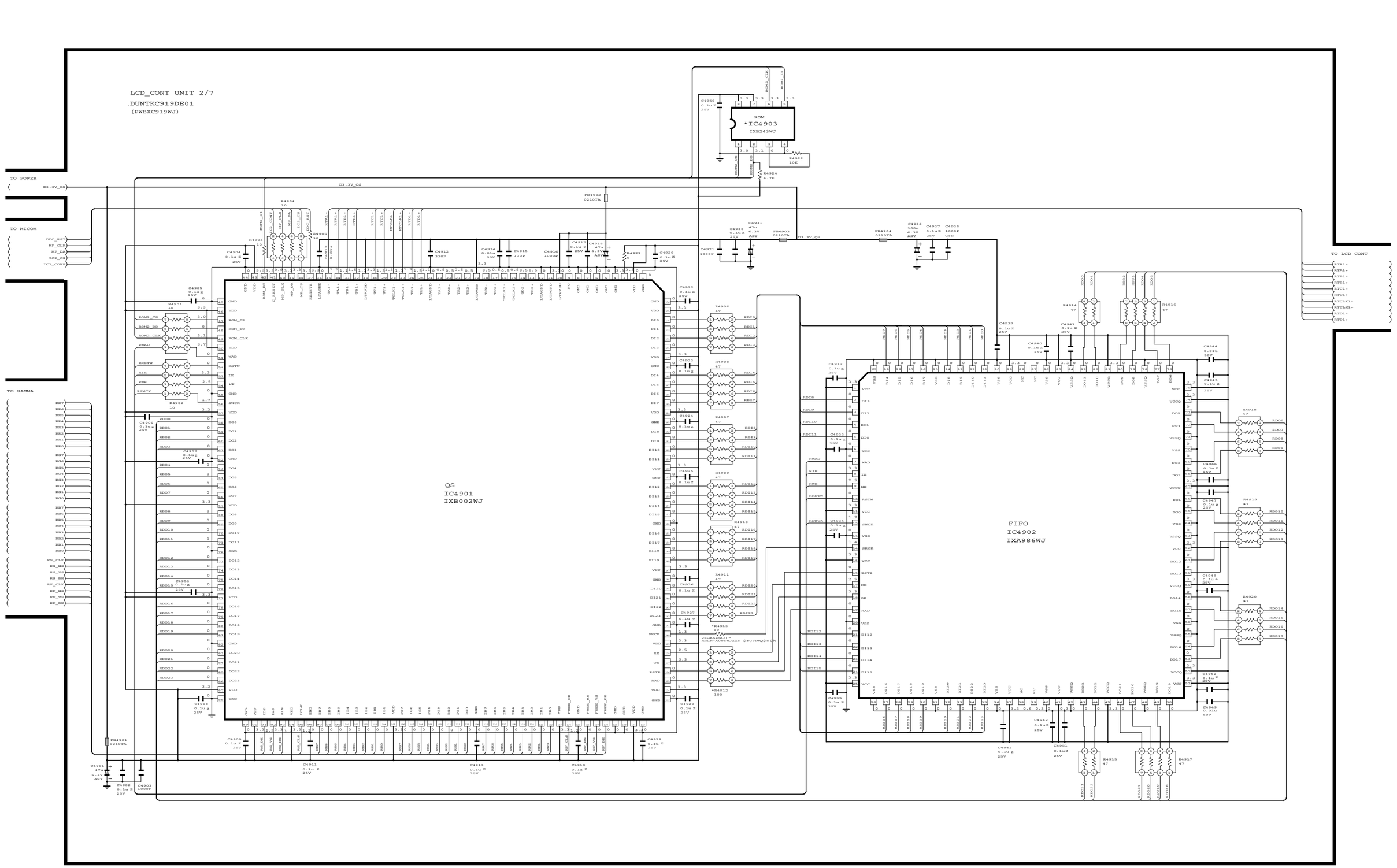


DRAW	VERIFIED	APPROVED	NAME	CODE
			RC_LED	XC865N2
			RC_LED SHT001	SHARP
			DATE 1-DEC-2004	ELECTRONICA ESPANA S.A.

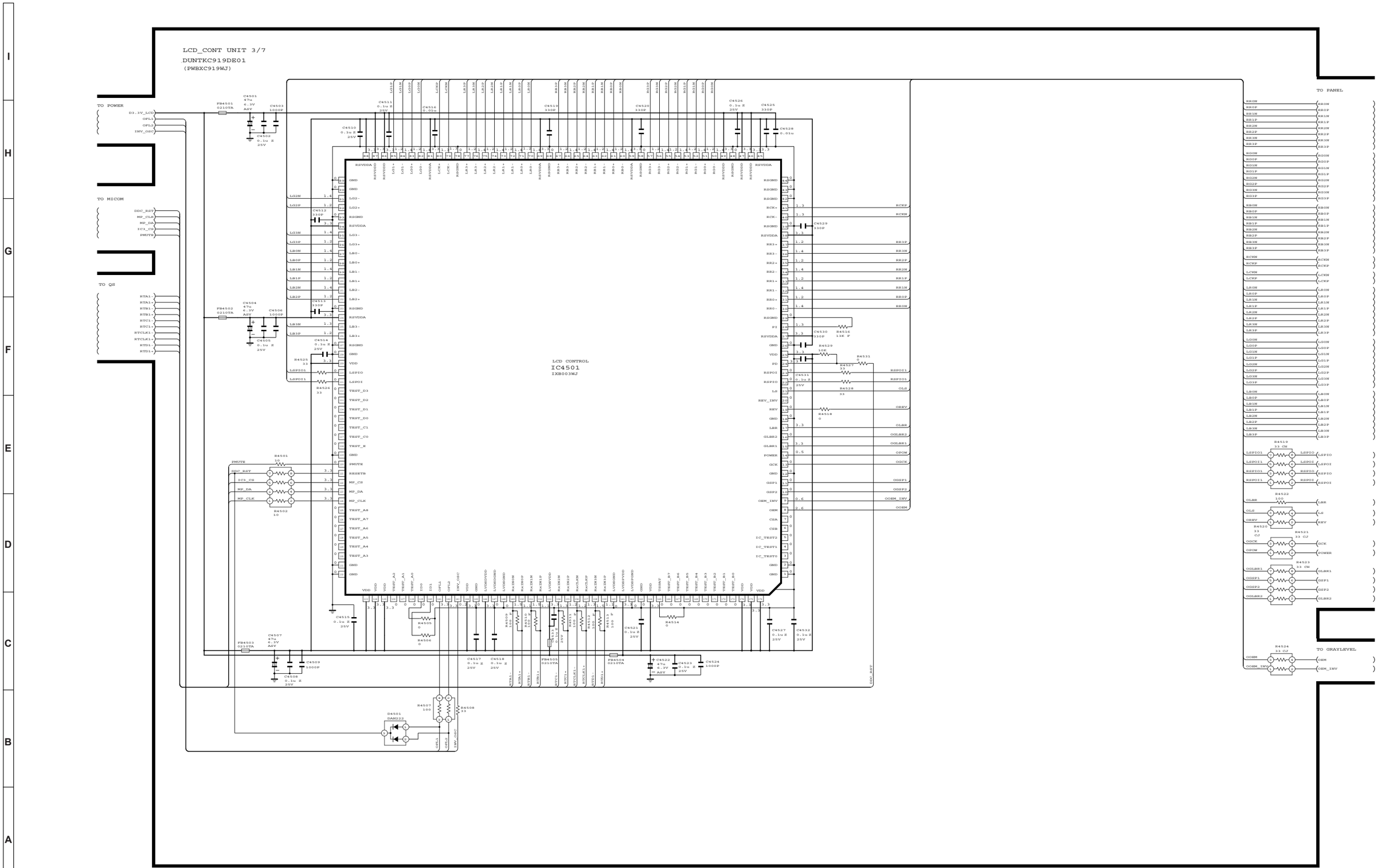
LC-26GA5E LCD Control Unit Diagram 1/7 (GAMMA)



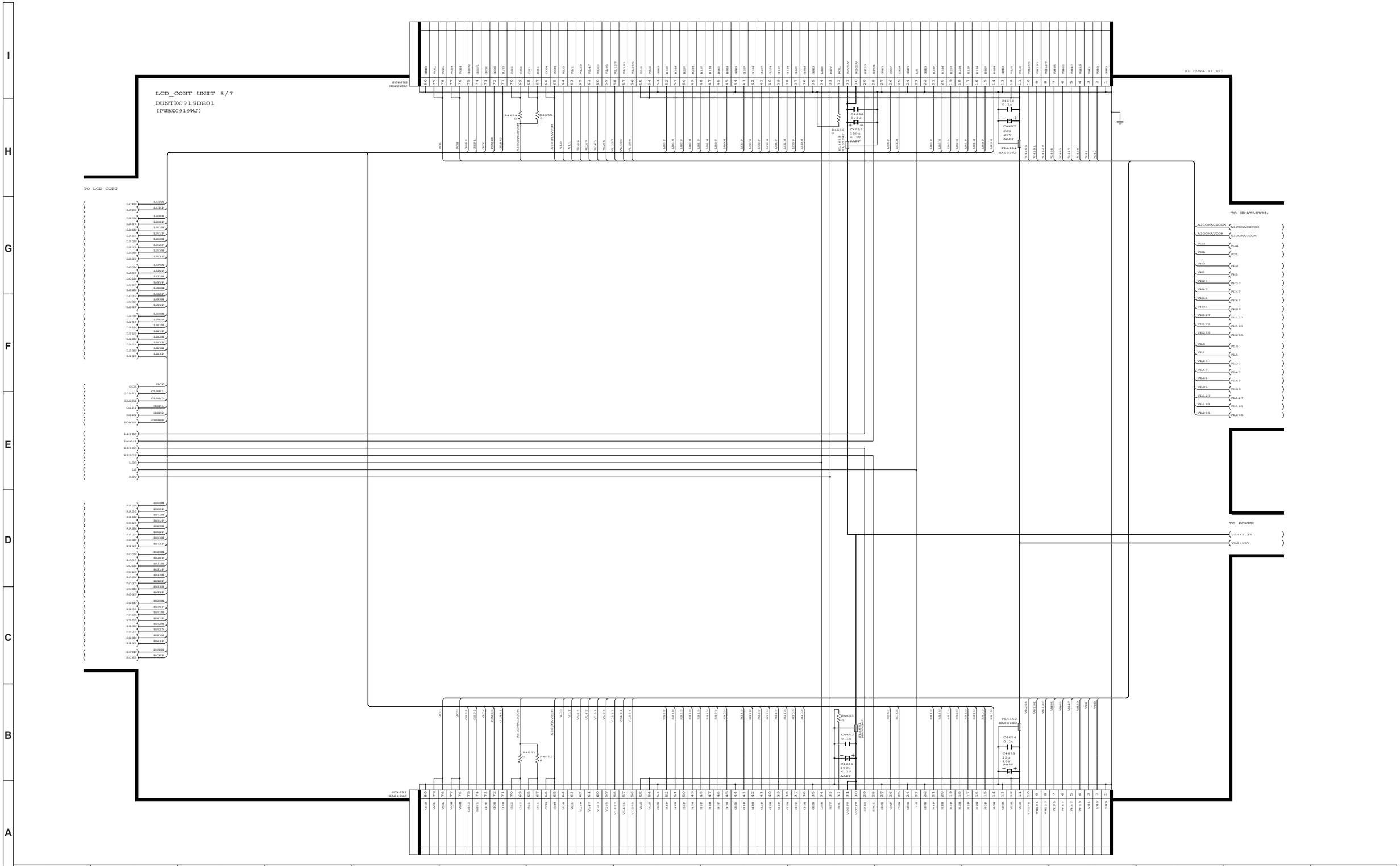
LC-26GA5E LCD Control Unit Diagram 2/7 (QS)



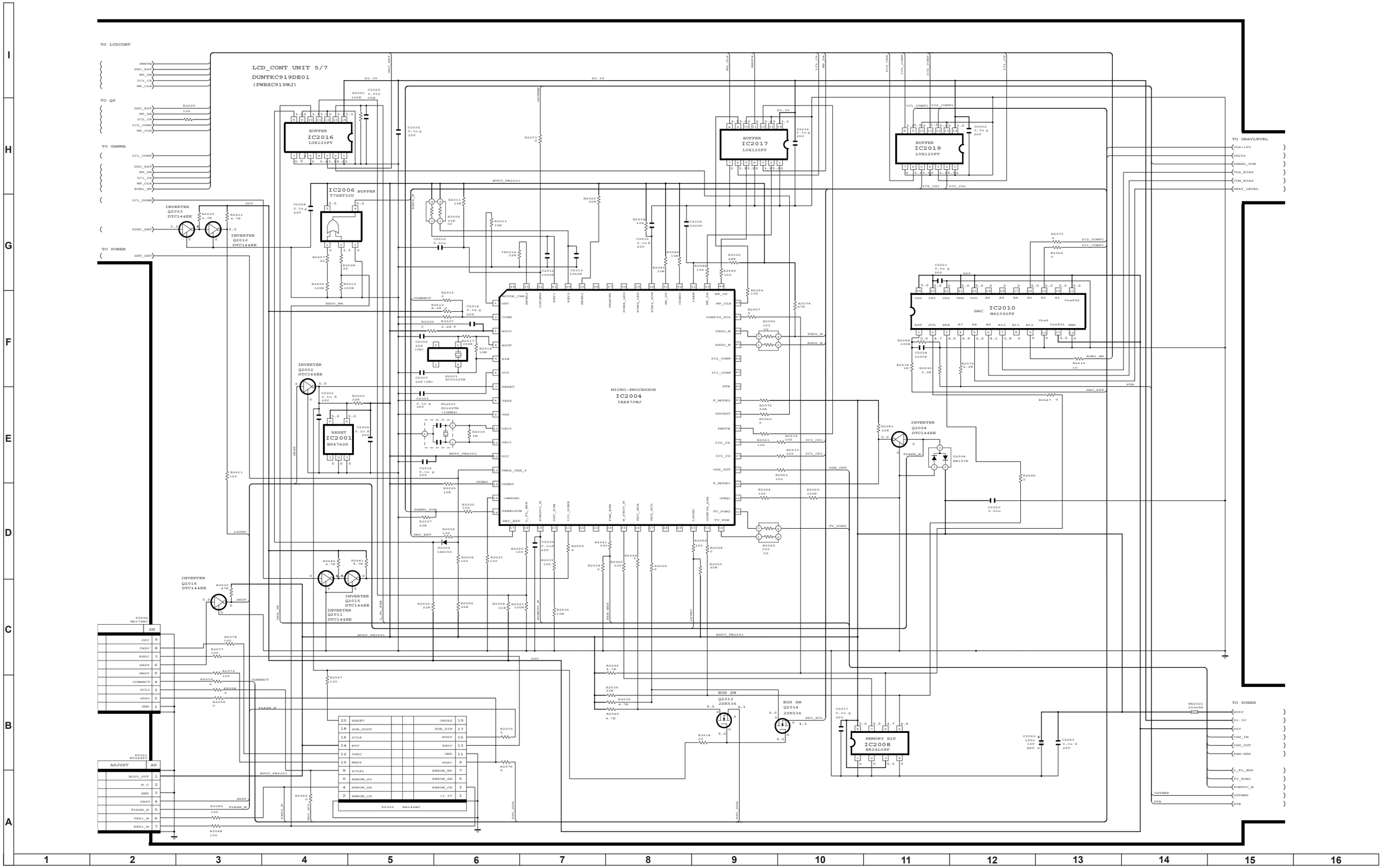
LC-26GA5E LCD Control Unit Diagram 3/7 (LCD CONTROL)



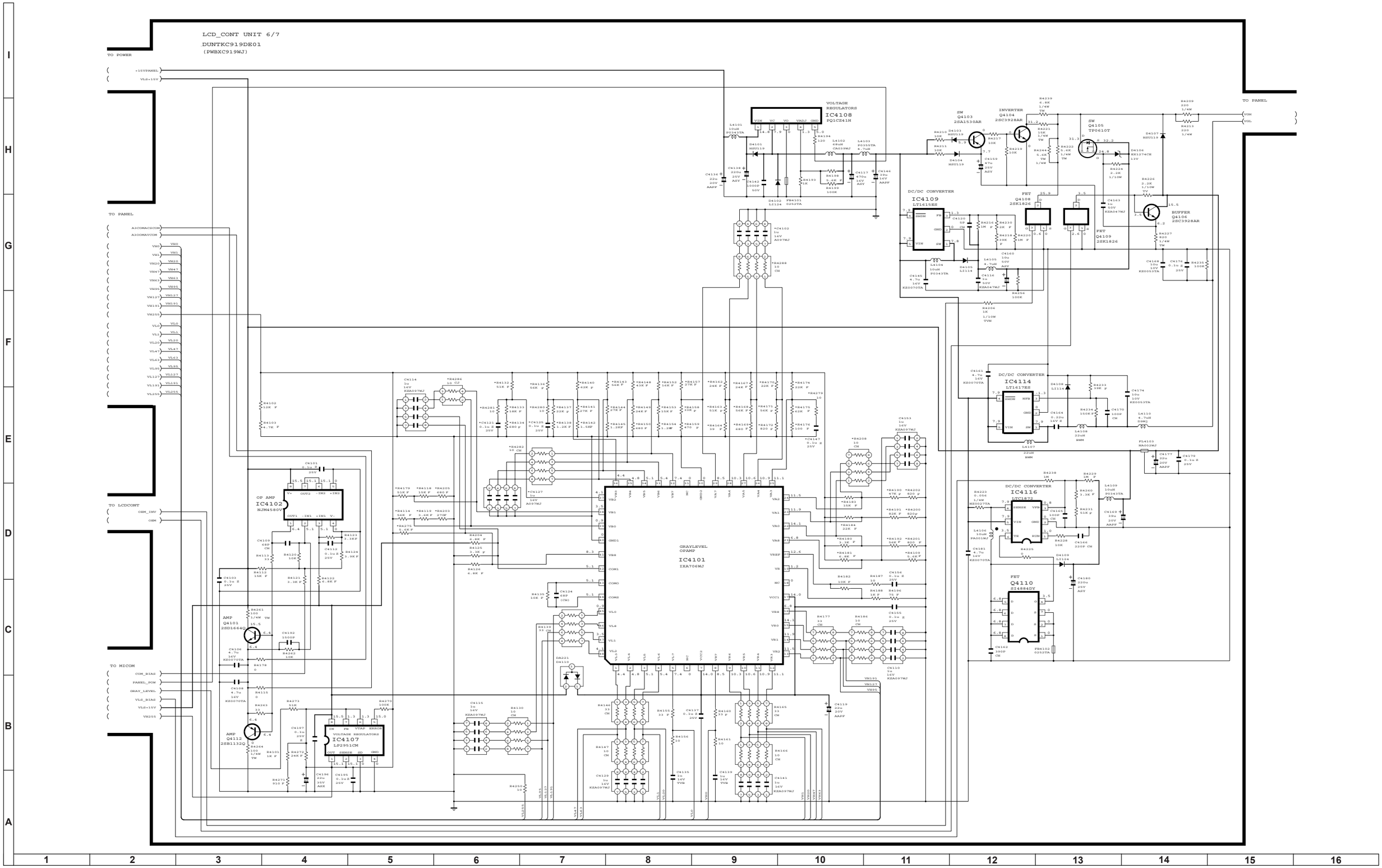
LC-26GA5E LCD Control Unit Diagram 4/7 (PANEL)



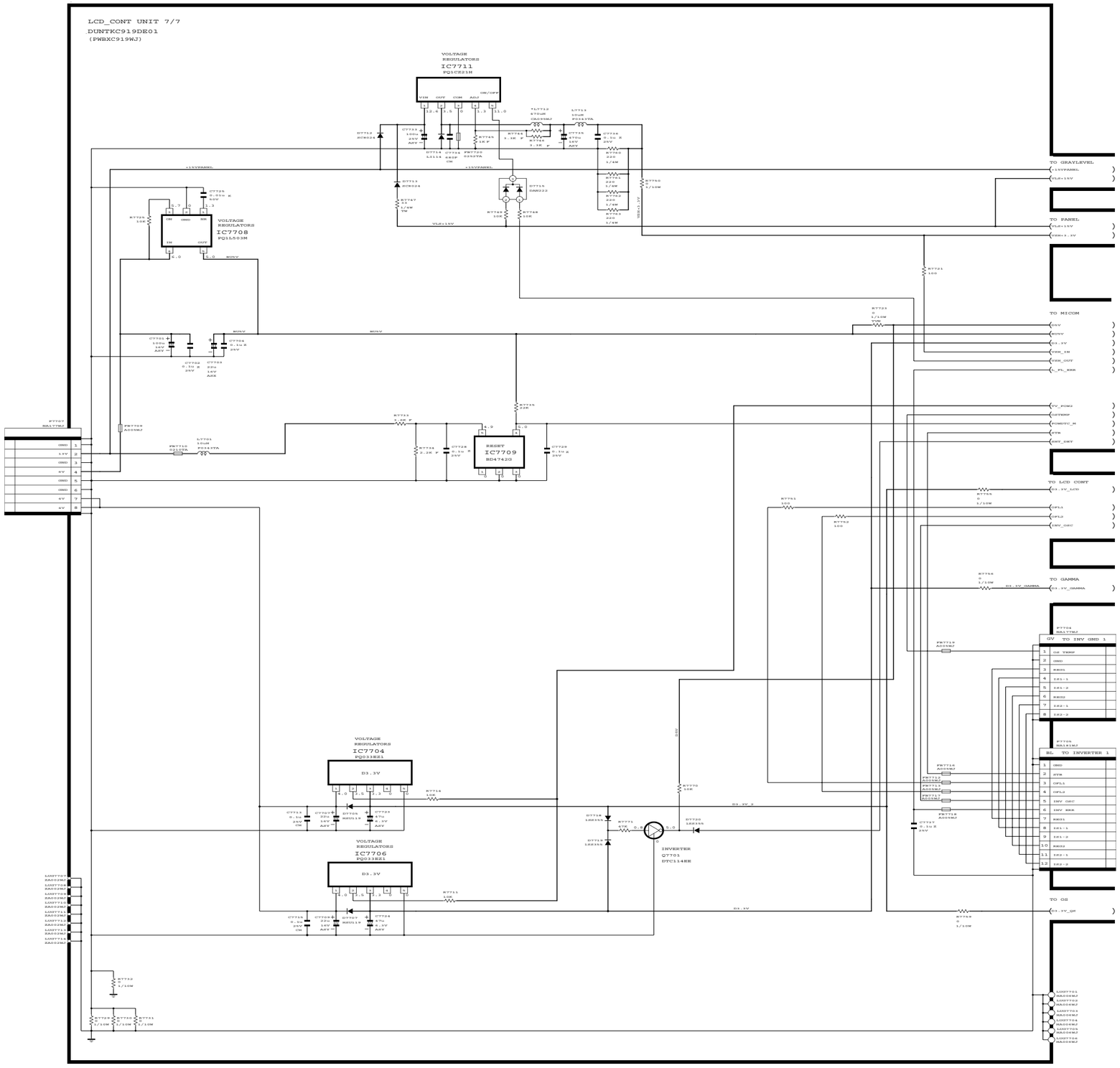
LC-26GA5E LCD Control Unit Diagram 5/7 (MICOM)



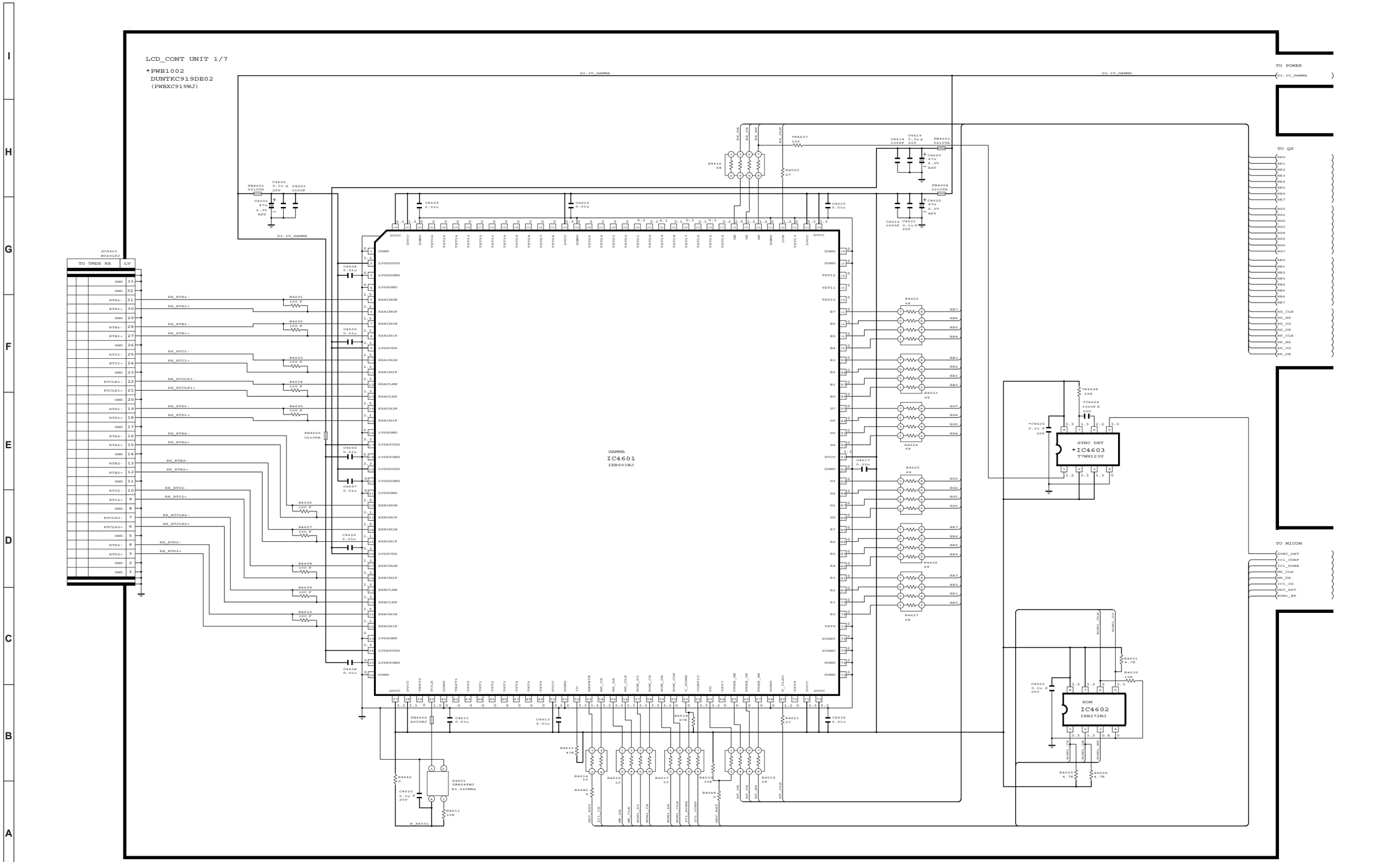
LC-26GA5E LCD Control Unit Diagram 6/7 (GRAYLEVEL)



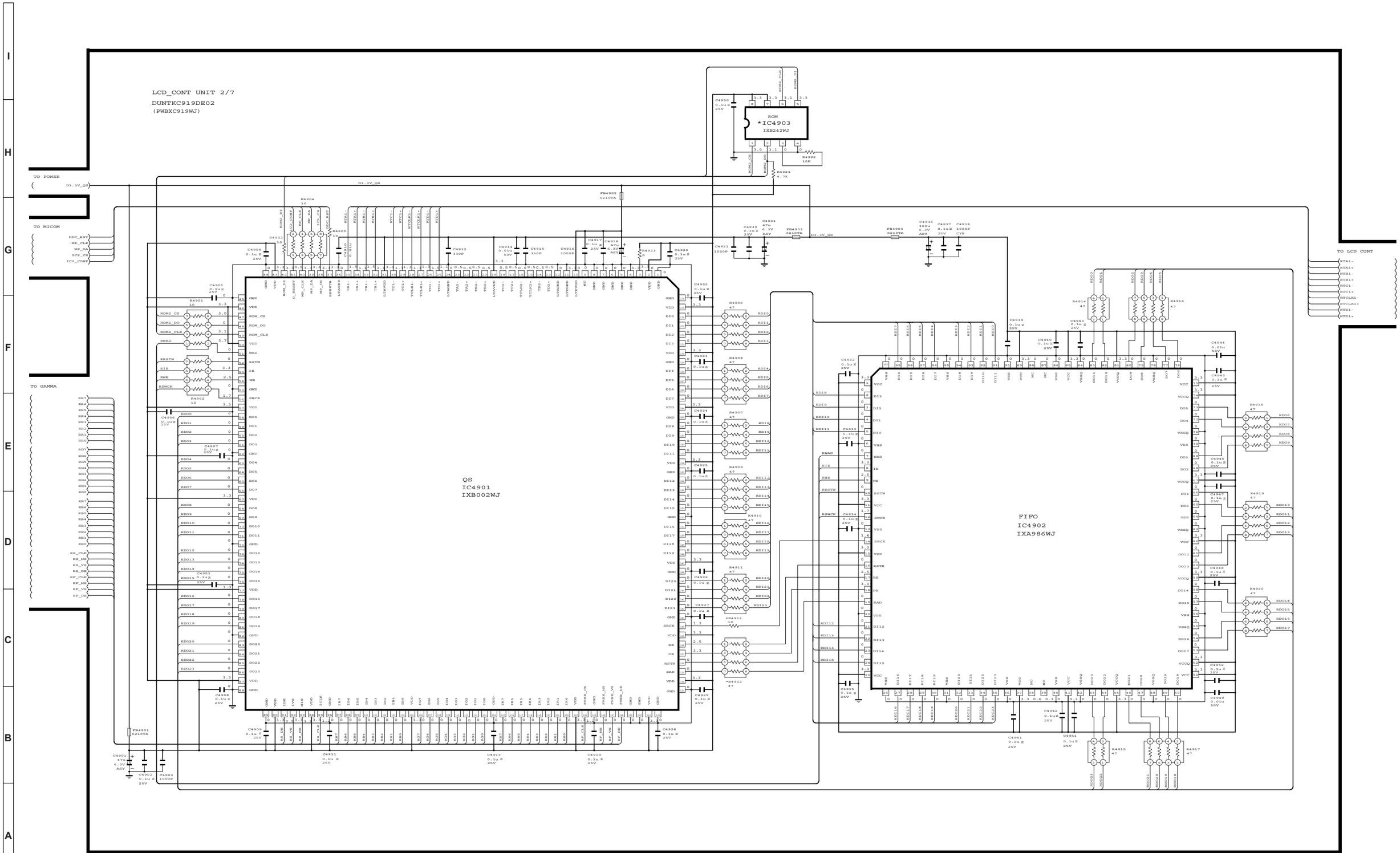
LC-26GA5E LCD Control Unit Diagram 7/7 (POWER)



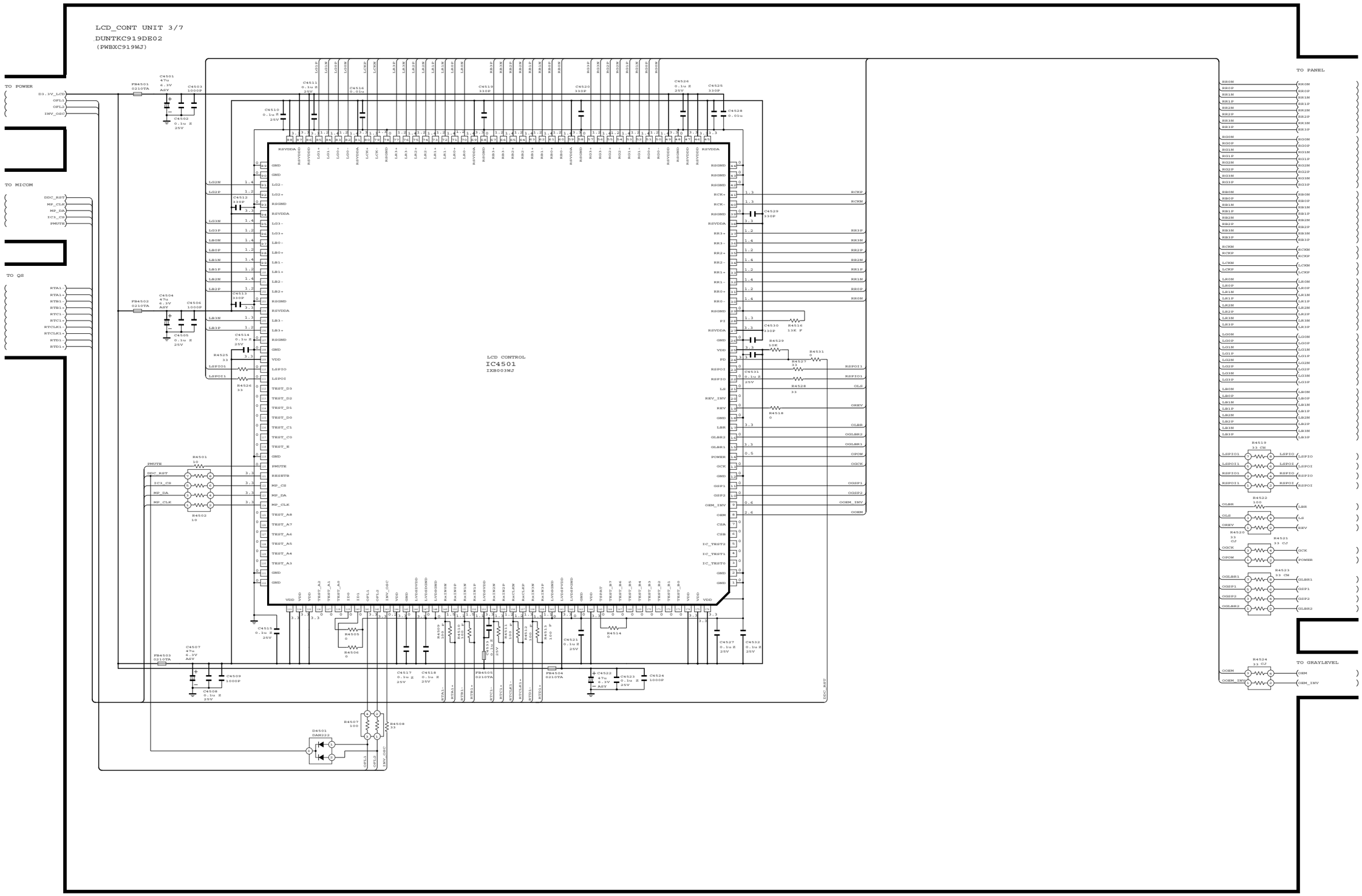
LC-32GA5E LCD Control Unit Diagram 1/7 (GAMMA)



LC-32GA5E LCD Control Unit Diagram 2/7 (QS)



LC-32GA5E LCD Control Unit Diagram 3/7 (LCD CONTROL)



LC-32GA5E LCD Control Unit Diagram 4/7 (PANEL)

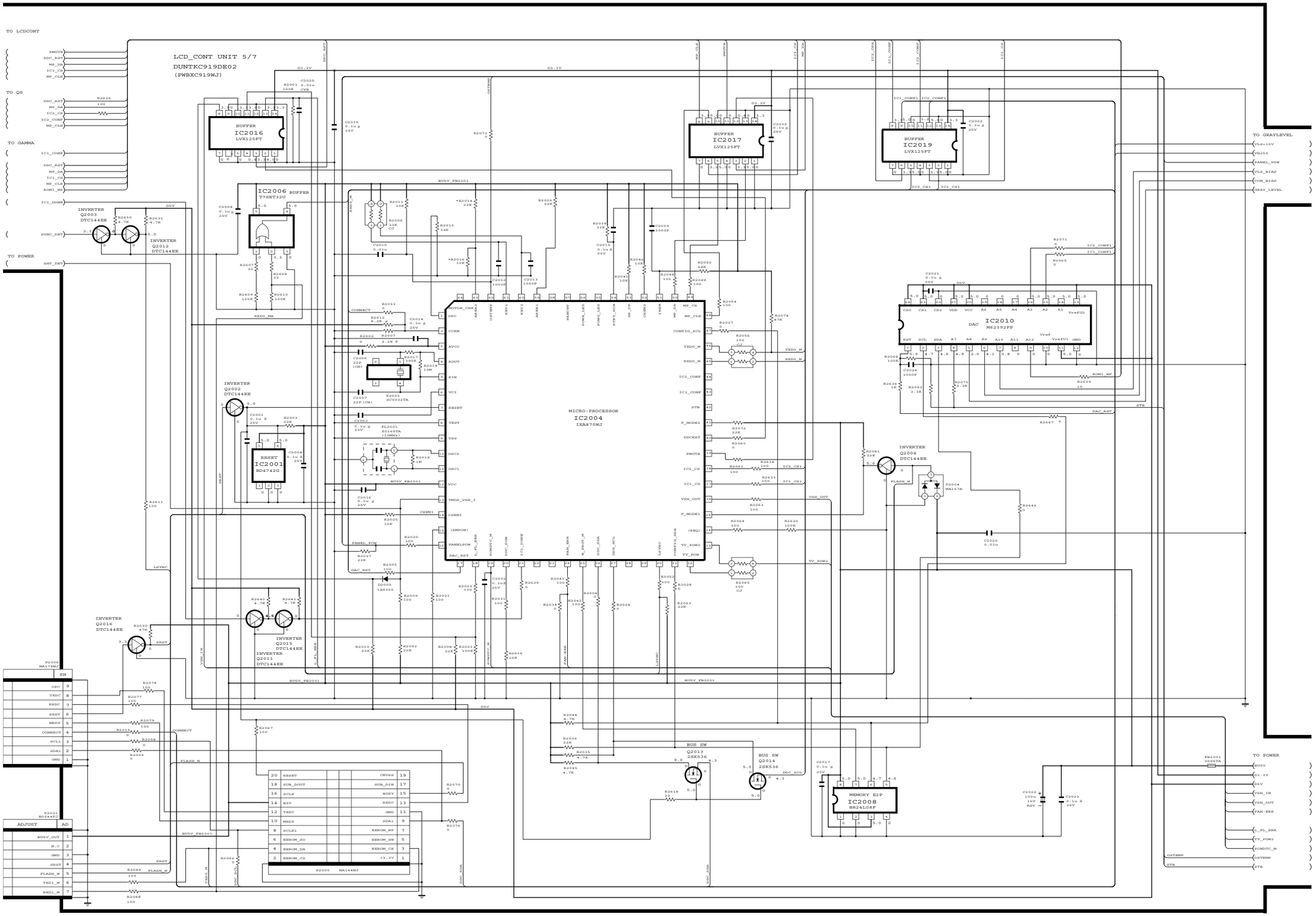
LCD_CONT UNIT 5/7
DUNTKC919DE02
(PWBXC919WJ)

TO LCD CONT

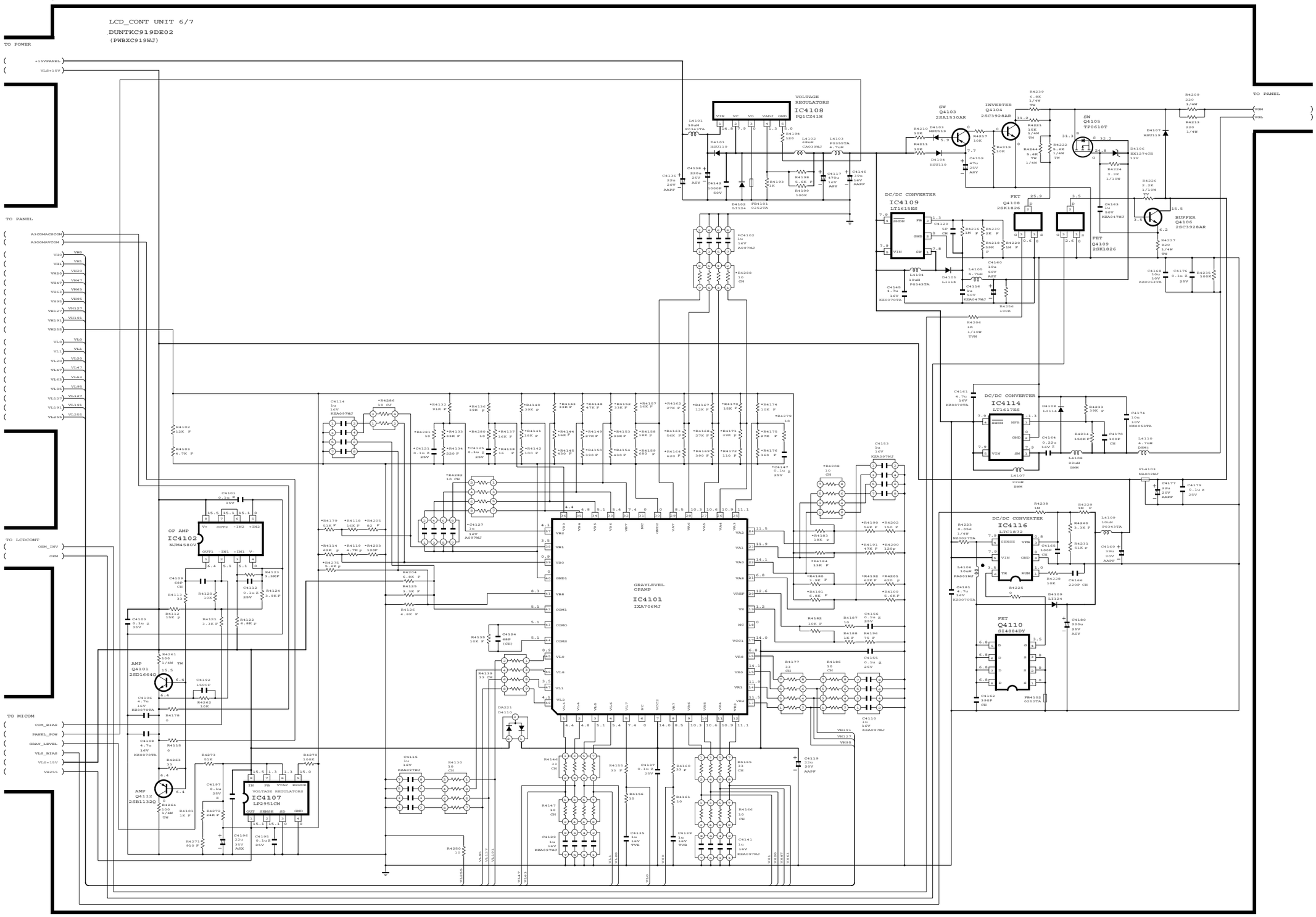
TO GRAYLEVEL

TO POWER

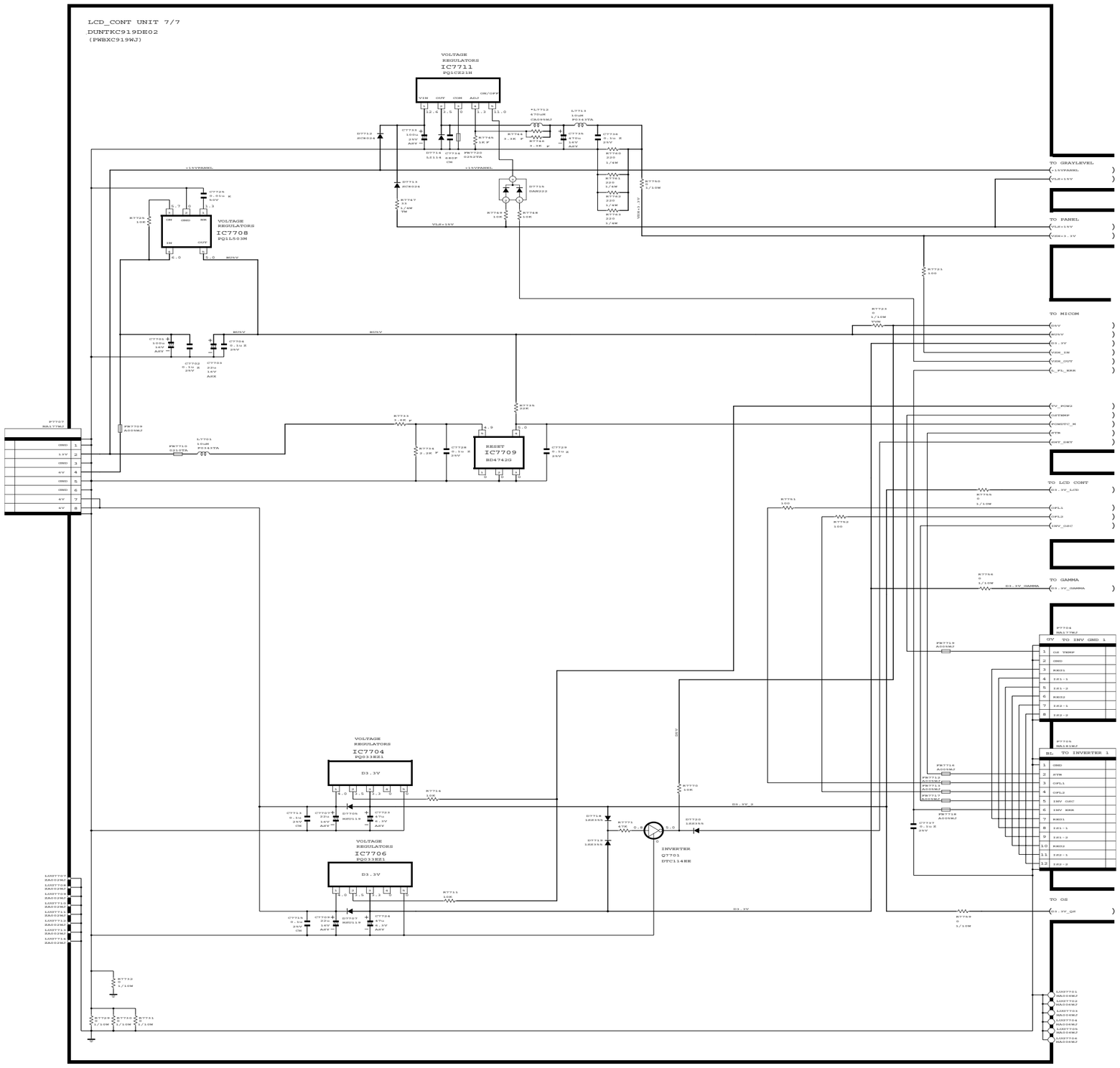
LC-32GA5E LCD Control Unit Diagram 5/7 (MICOM)



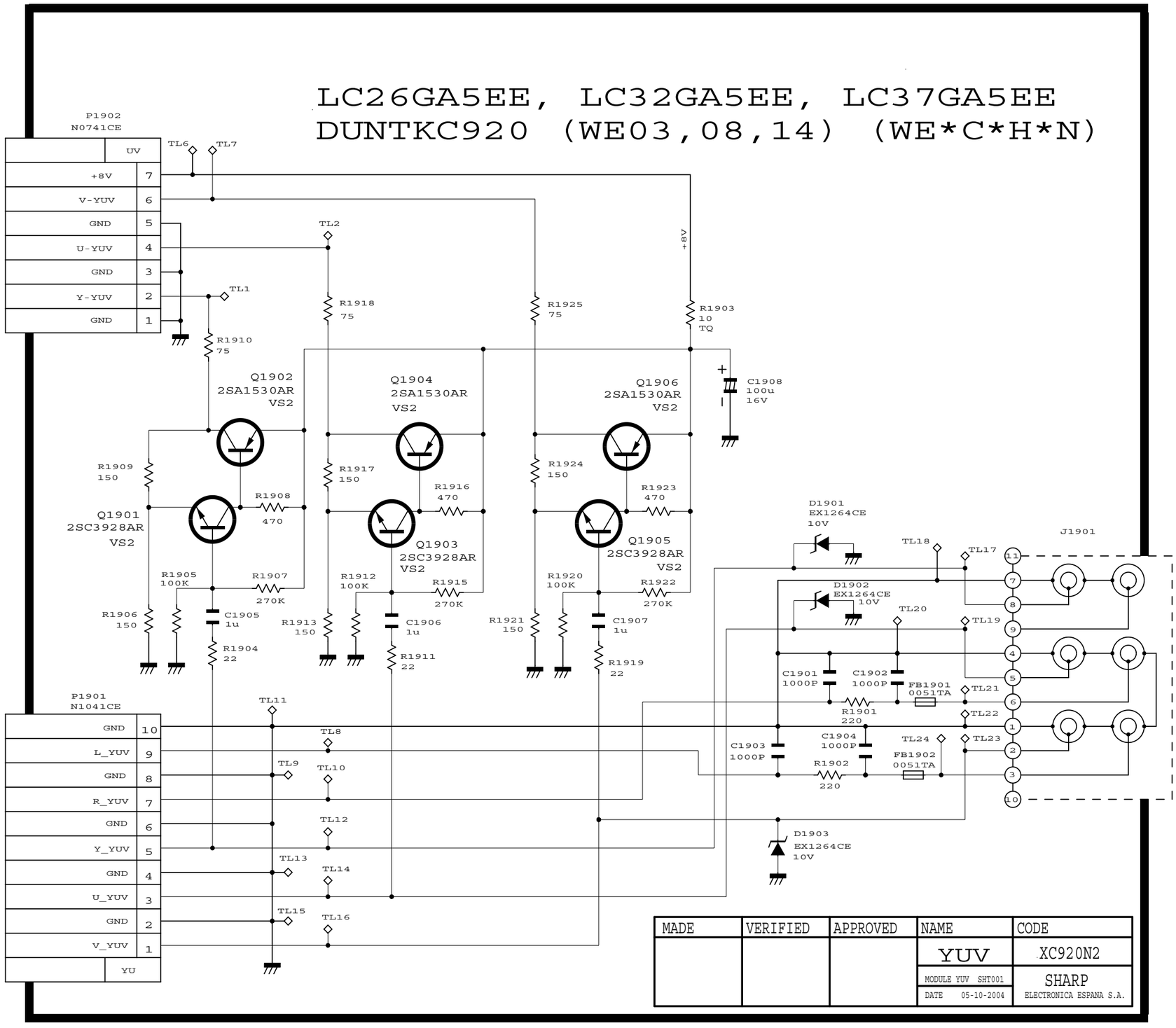
LC-32GA5E LCD Control Unit Diagram 6/7 (GRAYLEVEL)



LC-32GA5E LCD Control Unit Diagram 7/7 (POWER)



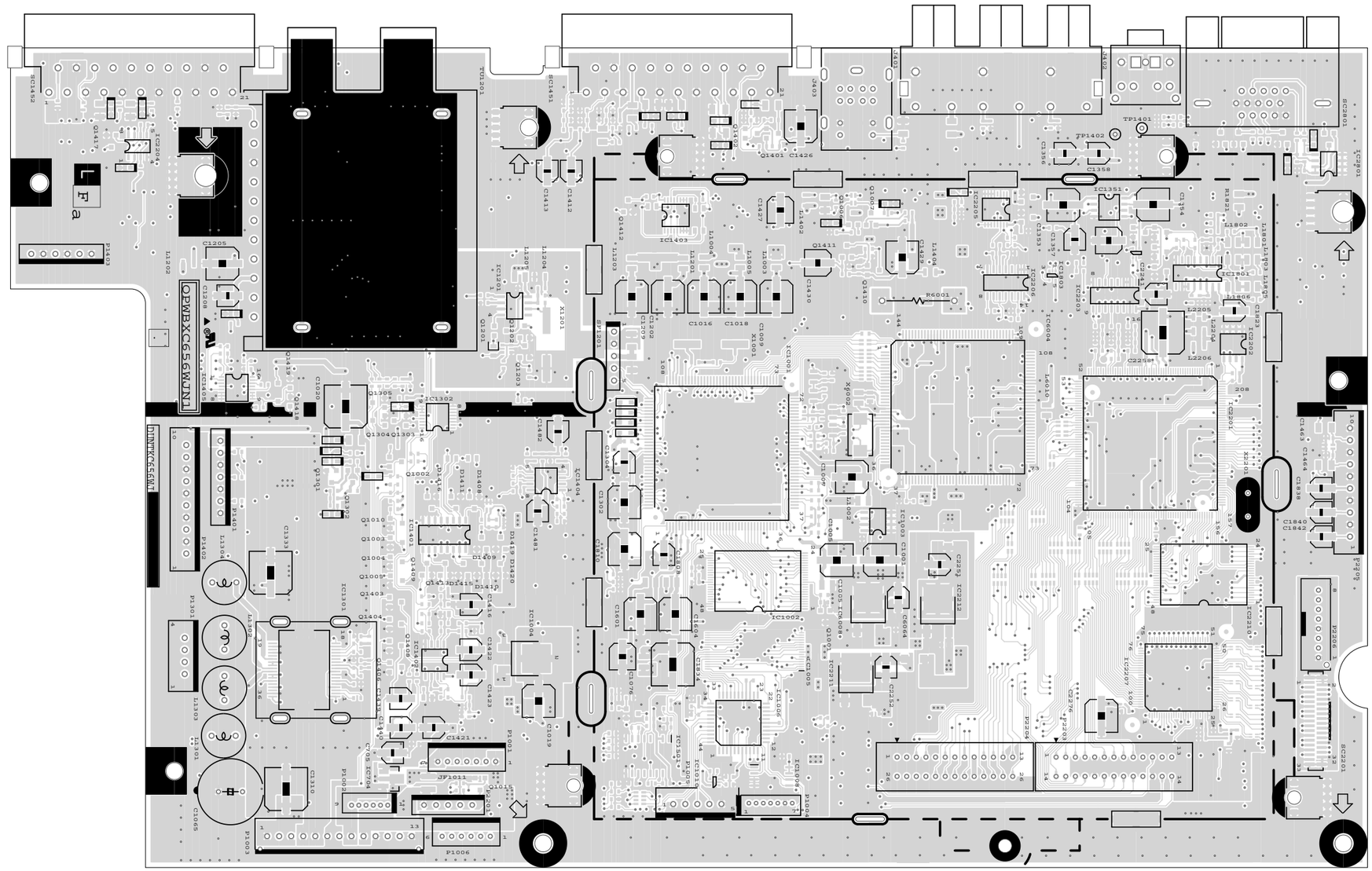
YUV Unit Diagram (YUV)



PRINTED WIRING BOARD

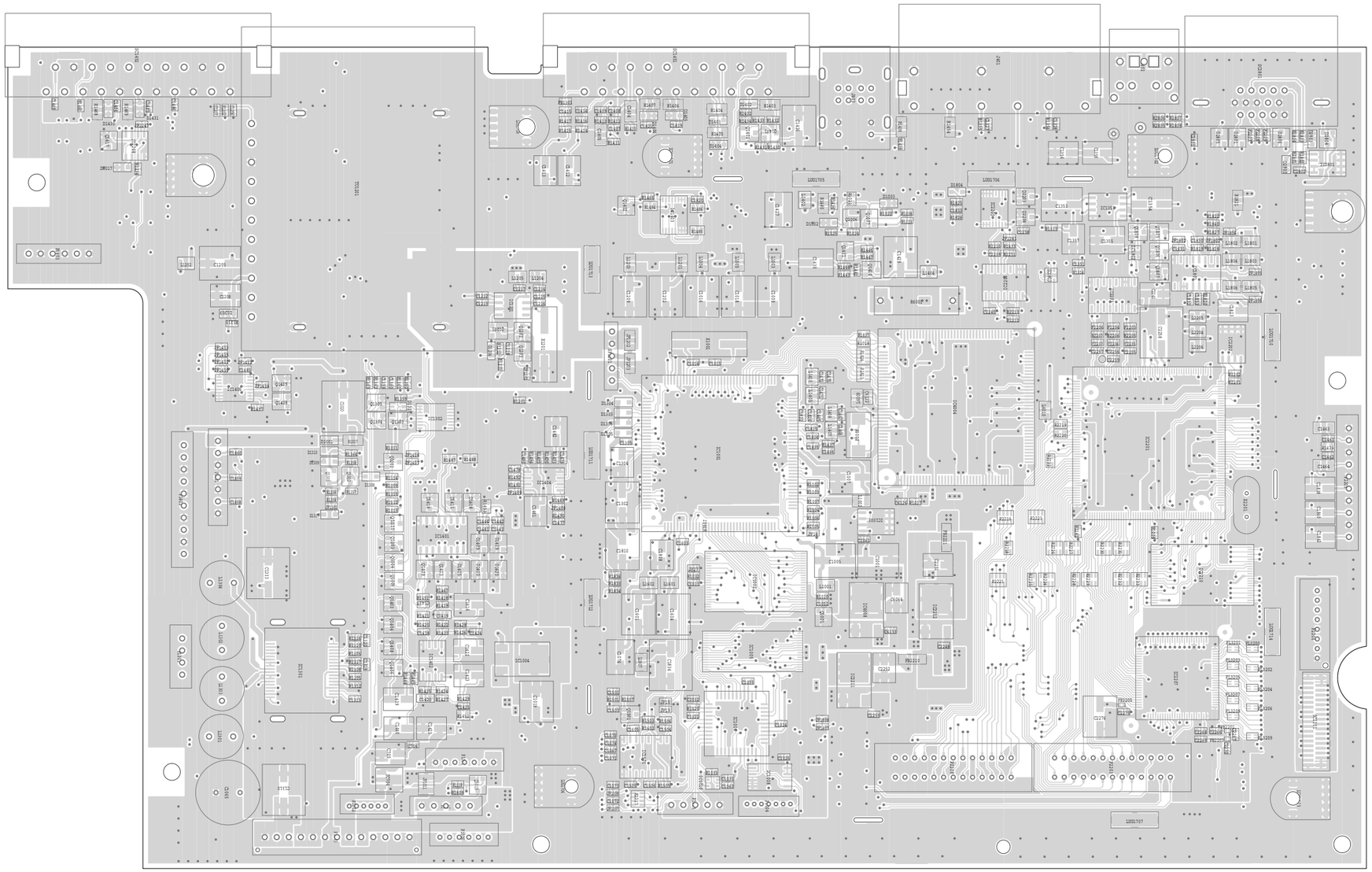
Main Unit PWB QPWBXC656WJN1

MAIN Unit, Side A



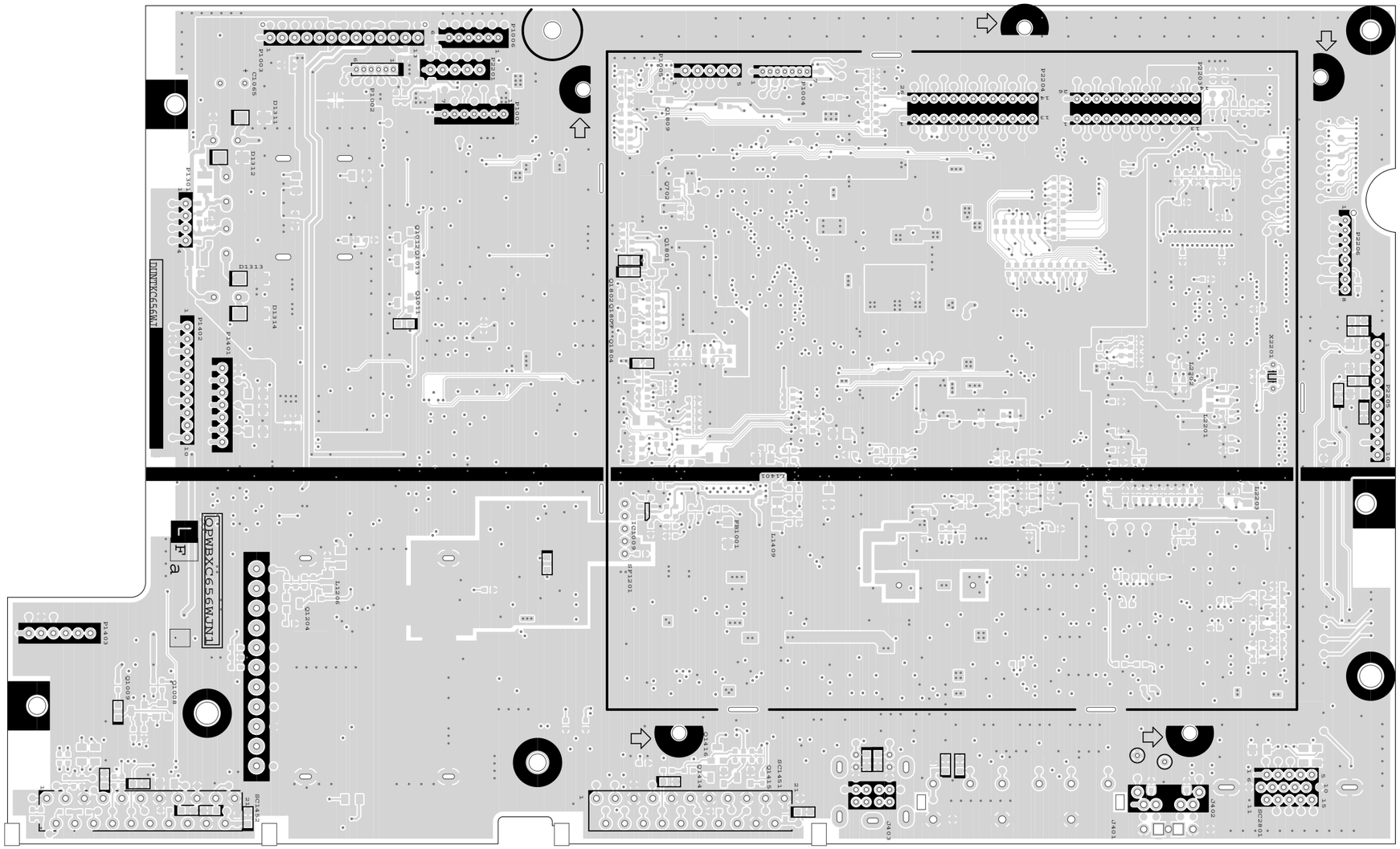
Main Unit PWB QPWBXC656WJN1 (Continued)

MAIN Unit, Side A - Chip Parts



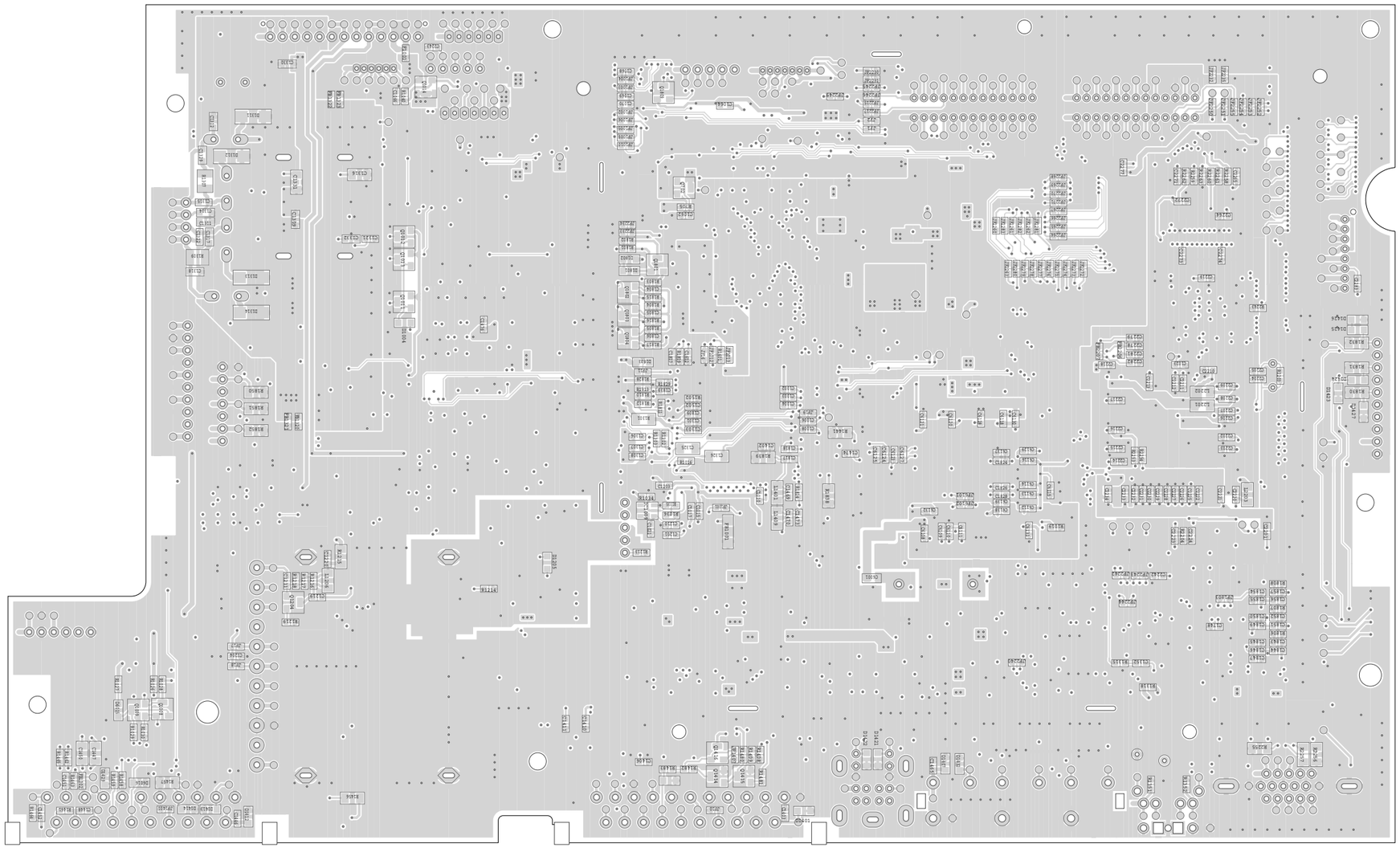
Main Unit PWB QPWBXC656WJN1 (Continued)

MAIN Unit, Side B



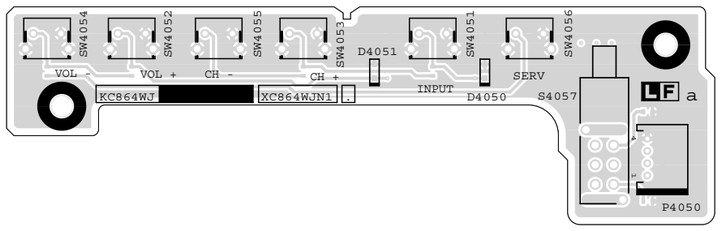
Main Unit PWB QPWBXC656WJN1 (Continued)

MAIN Unit, Side B - Chip Parts

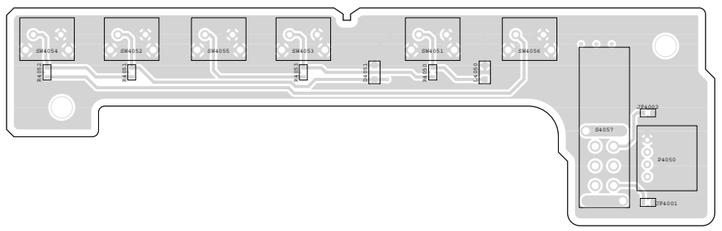


Operation Unit PWB QPWBXC864WJN1

Operation Unit, Side A



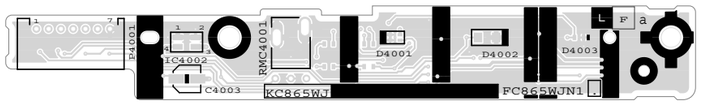
Operation Unit, Side A - Chip Parts



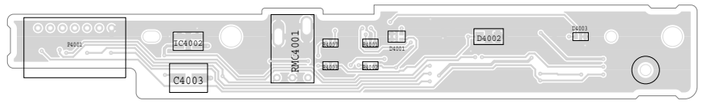
Operation Unit, Side B

RC / LED Unit PWB QPWBXC865WJN1

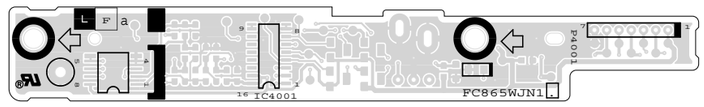
RC / LED Unit, Side A



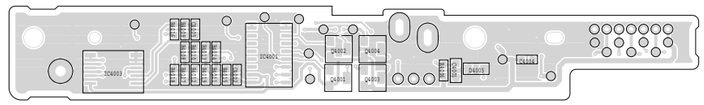
RC / LED Unit, Side A - Chip Parts



RC / LED Unit, Side B

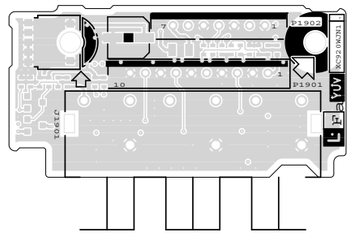


RC / LED Unit, Side B - Chip Parts

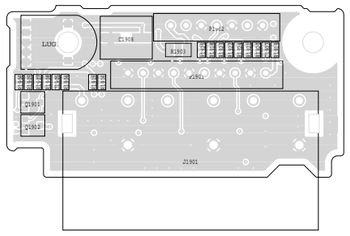


YUV Unit PWB QPWBXC920WJN1

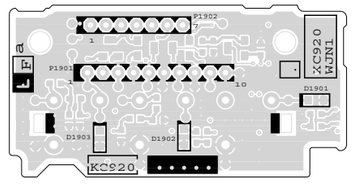
YUV Unit, Side A



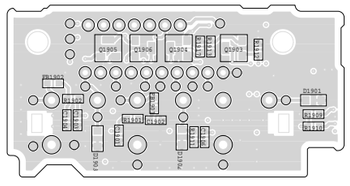
YUV Unit, Side A - Chip Parts



YUV Unit, Side B

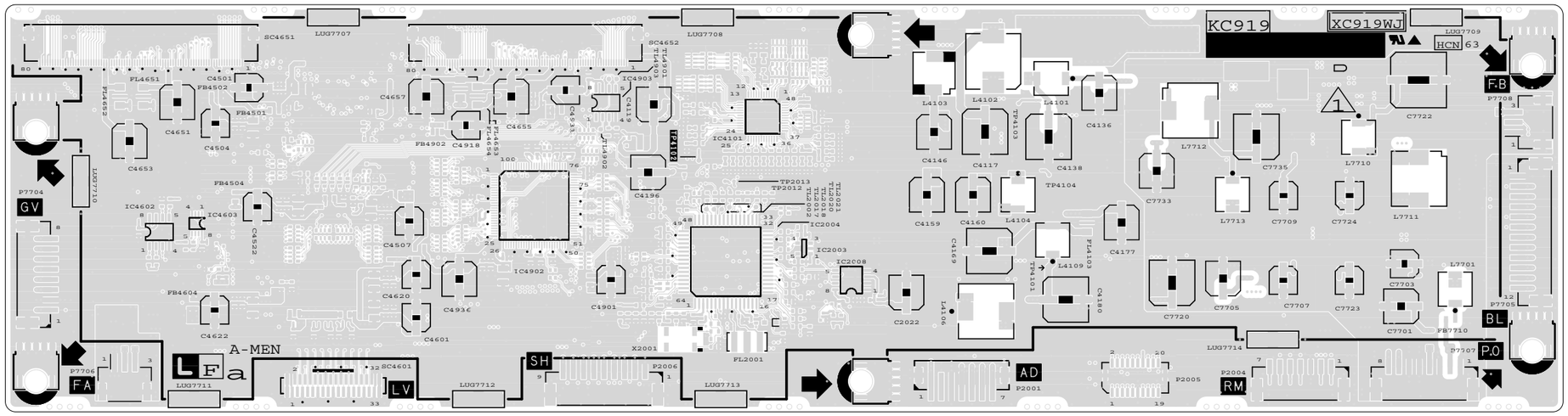


YUV Unit, Side B - Chip Parts



LCD Control Unit PWB QPWBXC919WJN1

LCD Control Unit, Side A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AD
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RM
P2004
F:B
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BL
P7705
P.O
P7707
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LUG7708
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LUG7712
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LUG7714
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IC4903
IC4101
IC2004
IC2003
IC2008
IC4602
IC4603
X2001
PL2001
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C4651
C4504
C4653
C4657
C4655
C4931
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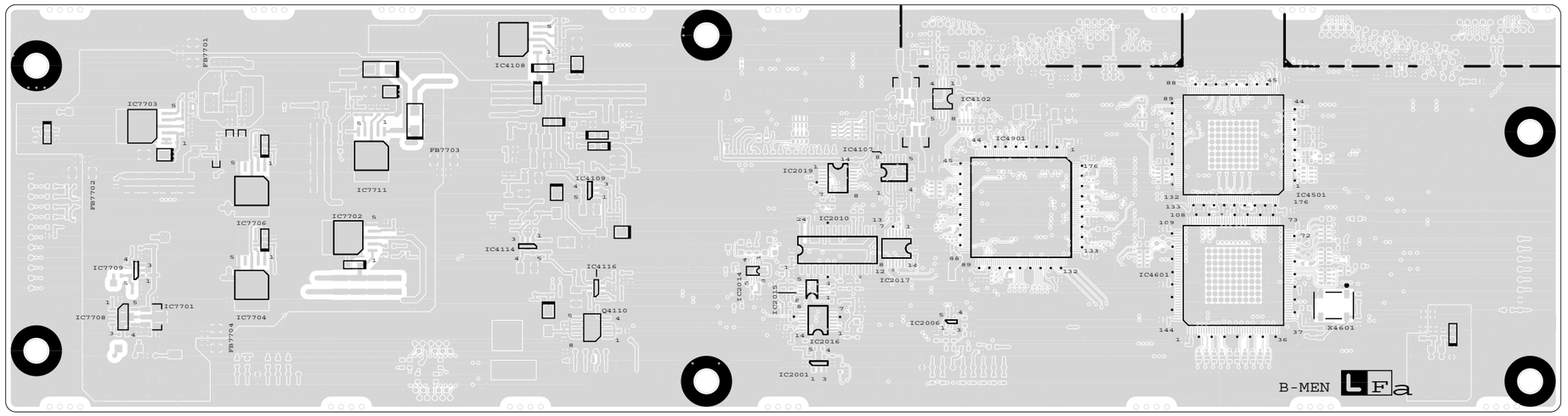
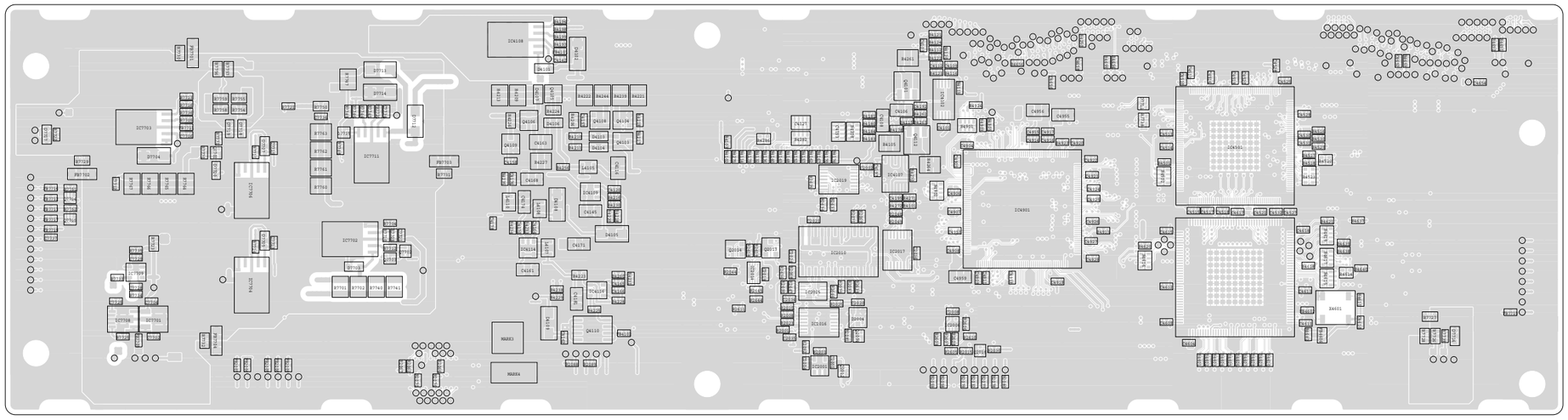
LCD Control Unit PWB QPWBXC919WJN1

LCD Control Unit, Side B



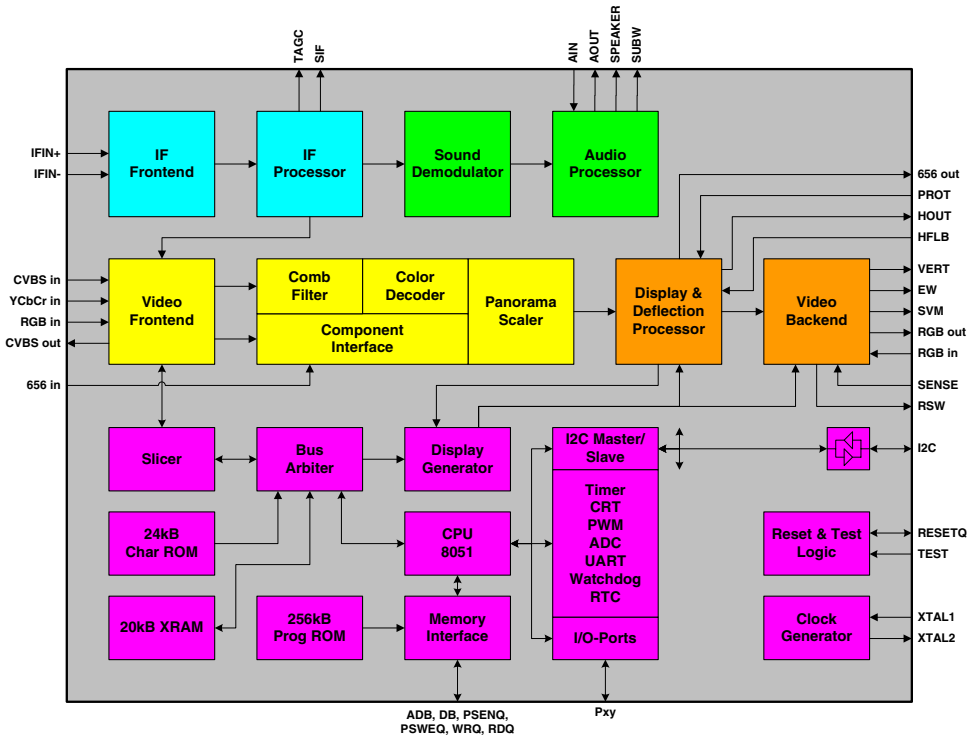
LCD Control Unit, Side B - Chip Parts



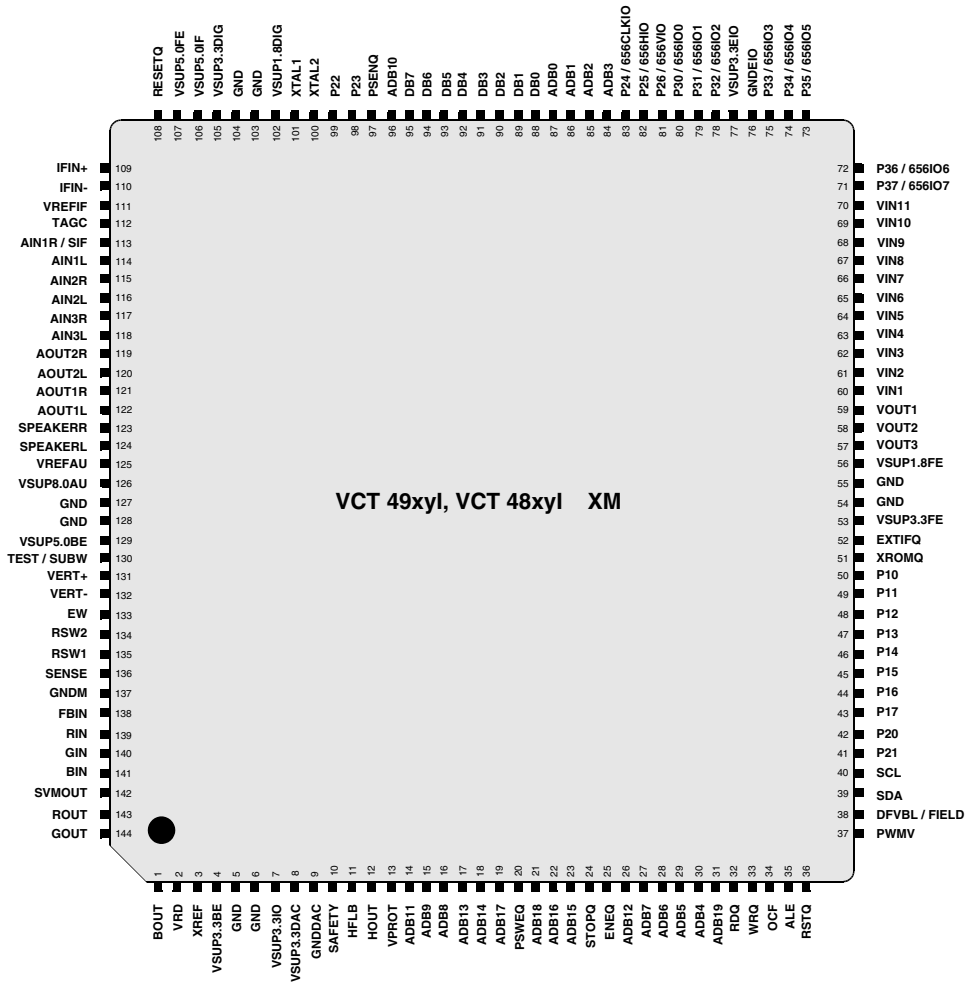
MAJOR ICs INFORMATION

1. IC1001 (RH-IXB058WJZZ)

1.1. VCT Block Diagram IC1001



1.2. Pinning IC1001



1.3. Description of Pins IC1001

NC = not connected
LV = if not used, leave vacant
OBL = obligatory; connect as described in circuit diagram
IN = Input Pin
OUT = Output Pin
SUPPLY = Supply Pin

Pin No.			Pin Name	Type	Connection (If not used)	Short Description
PSSDIP88-1 PY	PSSDIP88-1 PZ	PMQFP144-2 XM				
1	88	128	GND	SUPPLY	OBL	Ground Platform
2	87	129	VSUP5.0BE	SUPPLY	OBL	Supply Voltage Analog Video Back-end, 5.0 V
3	86	130	TEST / SUBW	IN OUT	GND	Test Input, reserved for Test Subwoofer Output
4	85	131	VERT+	OUT	GND	Differential Vertical Sawtooth Output
5	84	132	VERT-	OUT	GND	Differential Vertical Sawtooth Output
6	83	133	EW	OUT	GND	Vertical Parabola Output
7	82	134	RSW2	OUT	LV	Range Switch 2 Output
8	81	135	RSW1	OUT	LV	Range Switch 1 Output
9	80	136	SENSE	IN	GND	Sense ADC Input
10	79	137	GNDM	IN	GND	Reference Ground for Sense ADC
11	78	138	FBIN	IN	GND	Fast Blank Input, Back-end
12	77	139	RIN	IN	GND	Analog Red Input, Back-end
13	76	140	GIN	IN	GND	Analog Green Input, Back-end
14	75	141	BIN	IN	GND	Analog Blue Input, Back-end
15	74	142	SVMOUT	OUT	VSUP5.0BE	Scan Velocity Modulation Output
16	73	143	ROUT	OUT	VSUP5.0BE	Analog Red Output
17	72	144	GOUT	OUT	VSUP5.0BE	Analog Green Output
18	71	1	BOUT	OUT	VSUP5.0BE	Analog Blue Output
19	70	2	VRD		OBL	Reference Voltage for RGB DACs
20	69	3	XREF		OBL	Reference Current for RGB DACs
21	68	4	VSUP3.3BE	SUPPLY	OBL	Supply Voltage Analog Video Back-end, 3.3 V
22	67	5	GND	SUPPLY	OBL	Ground Platform
23	66	6	GND	SUPPLY	OBL	Ground Platform
24	65	7	VSUP3.3IO	SUPPLY	OBL	Supply Voltage I/O Ports, 3.3 V
25	64	8	VSUP3.3DAC	SUPPLY	OBL	Supply Voltage Video DACs, 3.3 V
26	63	9	GNDDAC	SUPPLY	OBL	Ground Video DACs
27	62	10	SAFETY	IN	GND	Safety Input

1.3. Description of Pins IC1001, continued

Pin No. PSSDIP88-1 PY	Pin No. PSSDIP88-1 PZ	Pin No. PMQFP144-2 XM	Pin Name	Type	Connection (If not used)	Short Description
28	61	11	HFLB	IN	HOUT	Horizontal Flyback Input
29	60	12	HOUT	OUT	LV	Horizontal Drive Output
30	59	13	VPROT	IN	GND	Vertical Protection Input
–	–	37	PWMV	OUT	LV	PWM Vertical Output
–	–	38	DFVBL	OUT	LV	Dynamic Focus Vertical Blanking Output
31	58	39	SDA	IN/OUT	OBL	I^2C Bus Data Input/Output
32	57	40	SCL	IN/OUT	OBL	I^2C Bus Clock Input/Output
33	56	41	P21	IN/OUT	LV	Port 2, Bit 1 Input/Output
34	55	42	P20	IN/OUT	LV	Port 2, Bit 0 Input/Output
35	54	43	P17	IN/OUT	LV	Port 1, Bit 7 Input/Output
36	53	44	P16	IN/OUT	LV	Port 1, Bit 6 Input/Output
37	52	45	P15	IN/OUT	LV	Port 1, Bit 5 Input/Output
38	51	46	P14	IN/OUT	LV	Port 1, Bit 4 Input/Output
39	50	47	P13	IN/OUT	LV	Port 1, Bit 3 Input/Output
40	49	48	P12	IN/OUT	LV	Port 1, Bit 2 Input/Output
41	48	49	P11	IN/OUT	LV	Port 1, Bit 1 Input/Output
42	47	50	P10	IN/OUT	LV	Port 1, Bit 0 Input/Output
43	46	53	VSUP3.3FE	SUPPLY	OBL	Supply Voltage Analog Video Front-end, 3.3 V
44	45	54	GND	SUPPLY	OBL	Ground Platform
45	44	55	GND	SUPPLY	OBL	Ground Platform
46	43	56	VSUP1.8FE	SUPPLY	OBL	Supply Voltage Analog Video Front-end, 1.8 V
47	42	57	VOUT3	OUT	LV	Analog Video 3 Output
48	41	58	VOUT2	OUT	LV	Analog Video 2 Output
49	40	59	VOUT1	OUT	LV	Analog Video 1 Output
50	39	60	VIN1	IN	GND	Analog Video 1 Input
51	38	61	VIN2	IN	GND	Analog Video 2 Input
52	37	62	VIN3	IN	GND	Analog Video 3 Input
53	36	63	VIN4	IN	GND	Analog Video 4 Input
54	35	64	VIN5	IN	GND	Analog Video 5 Input
55	34	65	VIN6	IN	GND	Analog Video 6 Input
56	33	66	VIN7	IN	GND	Analog Video 7 Input
57	32	67	VIN8	IN	GND	Analog Video 8 Input
58	31	68	VIN9	IN	GND	Analog Video 9 Input

1.3. Description of Pins IC1001, continued

Pin No. PSSDIP88-1 PY	Pin No. PSSDIP88-1 PZ	Pin No. PMQFP144-2 XM	Pin Name	Type	Connection (If not used)	Short Description
59	30	69	VIN10	IN	GND	Analog Video 10 Input
60	29	70	VIN11	IN	GND	Analog Video 11 Input
61	28	98	P23	IN/OUT	LV	Port 2, Bit 3 Input/Output
62	27	99	P22	IN/OUT	LV	Port 2, Bit 2 Input/Output
63	26	100	XTAL2	OUT	OBL	Analog Crystal Output
64	25	101	XTAL1	IN	OBL	Analog Crystal Input
65	24	102	VSUP1.8DIG	SUPPLY	OBL	Supply Voltage Digital Core, 1.8 V
66	23	103	GND	SUPPLY	OBL	Ground Platform
67	22	104	GND	SUPPLY	OBL	Ground Platform
68	21	105	VSUP3.3DIG	SUPPLY	OBL	Supply Voltage Digital Core, 3.3 V
69	20	106	VSUP5.0IF	SUPPLY	OBL	Supply Voltage IF ADC, 5.0 V
70	19	107	VSUP5.0FE	SUPPLY	OBL	Supply Voltage Analog IF Front-end, 5.0 V
71	18	108	RESETQ	IN/OUT	OBL	$\overline{\text{Reset}}$ Input/Output
72	17	109	IFIN+	IN	$VREF_{IF}$	Differential IF Input
73	16	110	IFIN-	IN	$VREF_{IF}$	Differential IF Input
74	15	111	VREFIF		OBL	Reference Voltage, IF ADC
75	14	112	TAGC	OUT	LV	Tuner AGC Output
76	13	113	AIN1R / SIF	IN/OUT	GND	Analog Audio 1 Input, Right Analog 2nd Sound IF Output
77	12	114	AIN1L	IN	GND	Analog Audio 1 Input, Left
78	11	115	AIN2R	IN	GND	Analog Audio 2 Input, Right
79	10	116	AIN2L	IN	GND	Analog Audio 2 Input, Left
–	–	117	AIN3R	IN	GND	Analog Audio 3 Input, Right
–	–	118	AIN3L	IN	GND	Analog Audio 3 Input, Left
–	–	119	AOUT2R	OUT	LV	Analog Audio 2 Output, Right
–	–	120	AOUT2L	OUT	LV	Analog Audio 2 Output, Left
80	9	–	AIN3R / AOUT2R	IN / OUT	LV	Analog Audio 3 Input, Right Analog Audio 2 Output, Right
81	8	–	AIN3L / AOUT2L	IN / OUT	LV	Analog Audio 3 Input, Left Analog Audio 2 Output, Left
82	7	121	AOUT1R	OUT	LV	Analog Audio 1 Output, Right
83	6	122	AOUT1L	OUT	LV	Analog Audio 1 Output, Left
84	5	123	SPEAKERR	OUT	LV	Analog Loudspeaker Output, Right
85	4	124	SPEAKERL	OUT	LV	Analog Loudspeaker Output, Left

1.3. Description of Pins IC1001, continued

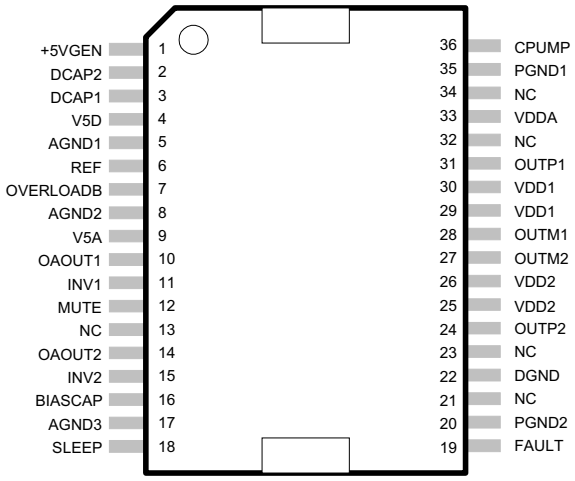
Pin No. PSSDIP88-1 PY	Pin No. PSSDIP88-1 PZ	Pin No. PMQFP144-2 XM	Pin Name	Type	Connection (If not used)	Short Description
86	3	125	VREFAU		OBL	Reference Voltage, Audio
87	2	126	VSUP8.0AU	SUPPLY	OBL	Supply Voltage Analog Audio, 8.0 V
88	1	127	GND	SUPPLY	OBL	Ground Platform
–	–	71	P37 / 656IO7	IN/OUT	LV	Port 3, Bit 7 Input/Output Digital 656 Bus 7 Input/Output
–	–	72	P36 / 656IO6	IN/OUT	LV	Port 3, Bit 6 Input/Output Digital 656 Bus 6 Input/Output
–	–	73	P35 / 656IO5	IN/OUT	LV	Port 3, Bit 5 Input/Output Digital 656 Bus 5 Input/Output
–	–	74	P34 / 656IO4	IN/OUT	LV	Port 3, Bit 4 Input/Output Digital 656 Bus 4 Input/Output
–	–	75	P33 / 656IO3	IN/OUT	LV	Port 3, Bit 3 Input/Output Digital 656 Bus 3 Input/Output
–	–	76	GNDEIO	SUPPLY	OBL	Ground Extended I/O Ports
–	–	77	VSUP3.3EIO	SUPPLY	OBL	Supply Voltage Extended I/O Ports, 3.3 V
–	–	78	P32 / 656IO2	IN/OUT	LV	Port 3, Bit 2 Input/Output Digital 656 Bus 2 Input/Output
–	–	79	P31 / 656IO1	IN/OUT	LV	Port 3, Bit 1 Input/Output Digital 656 Bus 1 Input/Output
–	–	80	P30 / 656IO0	IN/OUT	LV	Port 3, Bit 0 Input/Output Digital 656 Bus 0 Input/Output
–	–	81	P26 / 656VIO	IN/OUT	LV	Port 2, Bit 6 Input/Output Digital 656 Vsync Input/Output
–	–	82	P25 / 656HIO	IN/OUT	LV	Port 2, Bit 5 Input/Output Digital 656 Hsync Input/Output
–	–	83	P24 / 656CLKIO	IN/OUT	LV	Port 2, Bit 4 Input/Output Digital 656 Clock Input/Output
–	–	31	ADB19	OUT	LV	Address Bus 19 Output
–	–	21	ADB18	OUT	LV	Address Bus 18 Output
–	–	19	ADB17	OUT	LV	Address Bus 17 Output
–	–	22	ADB16	OUT	LV	Address Bus 16 Output
–	–	23	ADB15	OUT	LV	Address Bus 15 Output
–	–	18	ADB14	OUT	LV	Address Bus 14 Output
–	–	17	ADB13	OUT	LV	Address Bus 13 Output
–	–	26	ADB12	OUT	LV	Address Bus 12 Output
–	–	14	ADB11	OUT	LV	Address Bus 11 Output
–	–	96	ADB10	OUT	LV	Address Bus 10 Output

1.3. Description of Pins IC1001, continued

Pin No. PSSDIP88-1 PY	Pin No. PSSDIP88-1 PZ	Pin No. PMQFP144-2 XM	Pin Name	Type	Connection (If not used)	Short Description
–	–	15	ADB9	OUT	LV	Address Bus 9 Output
–	–	16	ADB8	OUT	LV	Address Bus 8 Output
–	–	27	ADB7	OUT	LV	Address Bus 7 Output
–	–	28	ADB6	OUT	LV	Address Bus 6 Output
–	–	29	ADB5	OUT	LV	Address Bus 5 Output
–	–	30	ADB4	OUT	LV	Address Bus 4 Output
–	–	84	ADB3	OUT	LV	Address Bus 3 Output
–	–	85	ADB2	OUT	LV	Address Bus 2 Output
–	–	86	ADB1	OUT	LV	Address Bus 1 Output
–	–	87	ADB0	OUT	LV	Address Bus 0 Output
–	–	88	DB0	IN/OUT	LV	Data Bus 0 Input/Output
–	–	89	DB1	IN/OUT	LV	Data Bus 1 Input/Output
–	–	90	DB2	IN/OUT	LV	Data Bus 2 Input/Output
–	–	91	DB3	IN/OUT	LV	Data Bus 3 Input/Output
–	–	92	DB4	IN/OUT	LV	Data Bus 4 Input/Output
–	–	93	DB5	IN/OUT	LV	Data Bus 5 Input/Output
–	–	94	DB6	IN/OUT	LV	Data Bus 6 Input/Output
–	–	95	DB7	IN/OUT	LV	Data Bus 7 Input/Output
–	–	32	RDQ	OUT	LV	$\overline{\text{Data Read Enable}}$ Output
–	–	33	WRQ	OUT	LV	$\overline{\text{Data Write Enable}}$ Output
–	–	34	OCF	OUT	LV	Opcode Fetch Output
–	–	35	ALE	OUT	LV	Address Latch Enable Output
–	–	36	RSTQ	OUT	LV	$\overline{\text{Internal CPU Reset}}$ Output
–	–	97	PSENQ	OUT	LV	$\overline{\text{Program Store Enable}}$ Output
–	–	20	PSWEQ	OUT	LV	$\overline{\text{Program Store Write Enable}}$ Output
–	–	51	XROMQ	IN	OBL	$\overline{\text{External ROM Enable}}$ Input
–	–	52	EXTIFQ	IN	LV	$\overline{\text{Enable External Interface}}$ Input
–	–	24	STOPQ	IN	LV	$\overline{\text{Stop CPU}}$ Input
–	–	25	ENEQ	IN	LV	$\overline{\text{Enable Emulation}}$ Input

2. IC1301 (VHITA2024++-1)

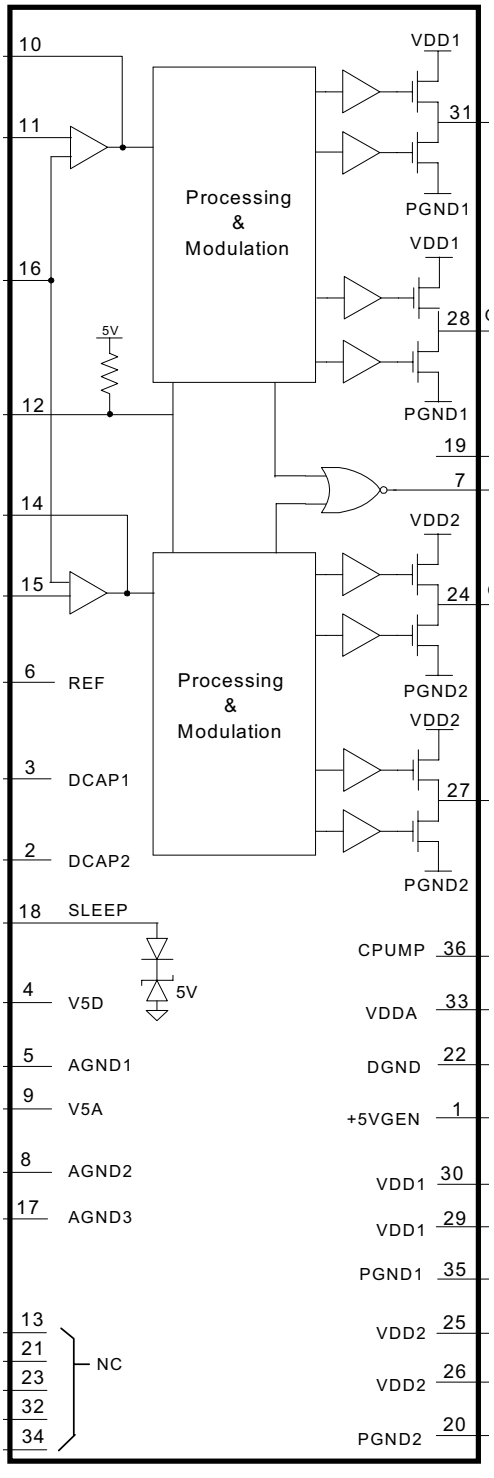
2.1. Pinning IC1301



2.2. Pin Description IC1301

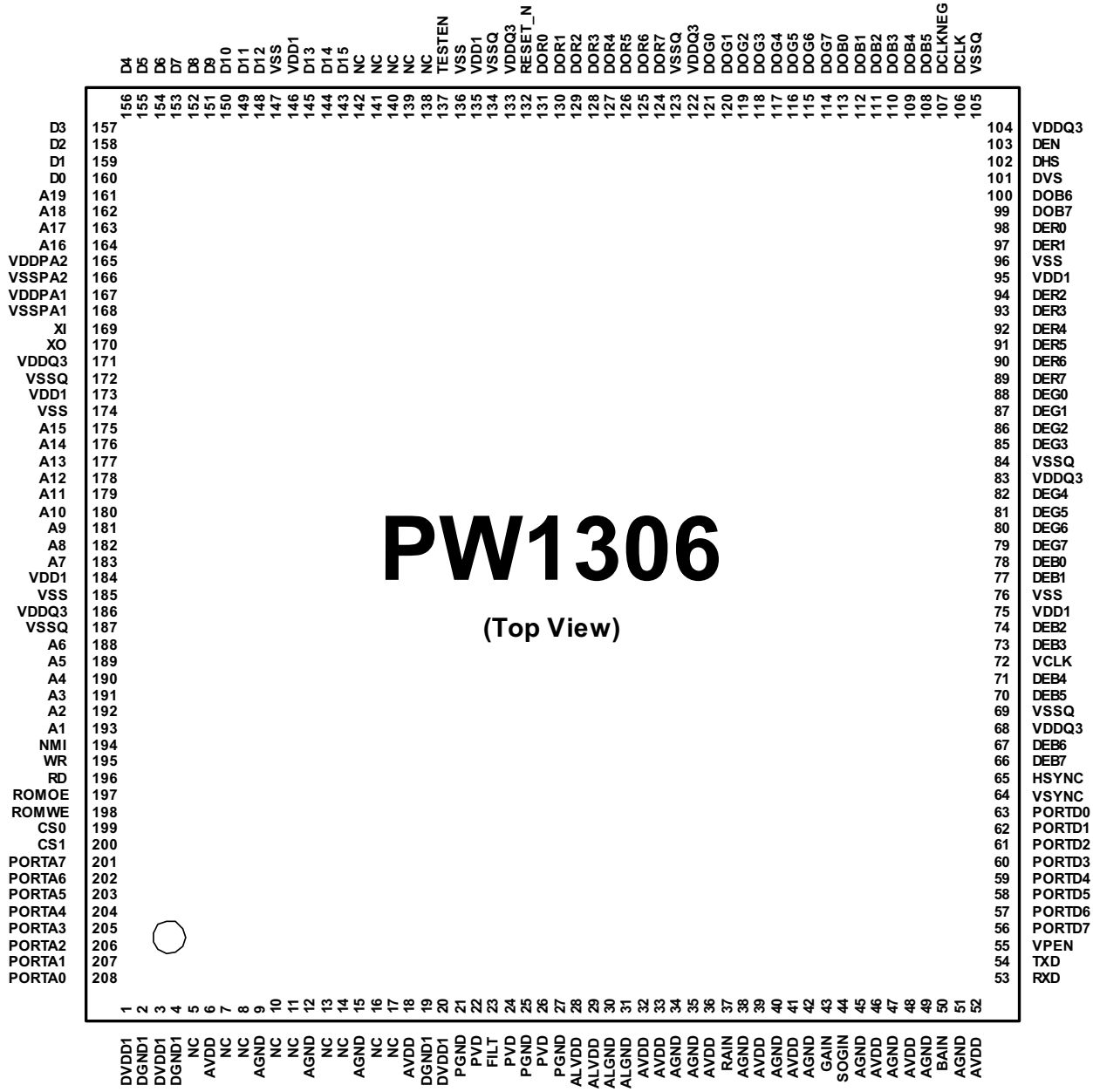
Pin	Function	Description
2, 3	DCAP2, DCAP1	Charge pump switching pins. DCAP1 (pin 3) is a free running 300kHz square wave between VDDA and DGND (12Vpp nominal). DCAP2 (pin 2) is level shifted 10 volts above DCAP1 (pin 3) with the same amplitude (12Vpp nominal), frequency, and phase as DCAP1.
4, 9	V5D, V5A	Digital 5VDC, Analog 5VDC
5, 8, 17	AGND1, AGND2, AGND3	Analog Ground
6	REF	Internal reference voltage; approximately 1.0 VDC.
7	OVERLOADB	A logic low output indicates the input signal has overloaded the amplifier.
10, 14	OAOUT1, OAOUT2	Input stage output pins.
11, 15	INV1, INV2	Single-ended inputs. Inputs are a “virtual” ground of an inverting opamp with approximately 2.4VDC bias.
12	MUTE	When set to logic high, both amplifiers are muted and in idle mode. When low (grounded), both amplifiers are fully operational. If left floating, the device stays in the mute mode. This pin should be tied to GND if not used.
16	BIASCAP	Input stage bias voltage (approximately 2.4VDC).
18	SLEEP	When set to logic high, device goes into low power mode. If not used, this pin should be grounded
19	FAULT	A logic high output indicates thermal overload, or an output is shorted to ground, or another output.
20, 35	PGND2, PGND1	Power Grounds (high current)
22	DGND	Digital Ground. Connect to AGND locally (near the TA2024).
24, 27; 31, 28	OUTP2 & OUTM2; OUTP1 & OUTM1	Bridged output pairs
25, 26, 29, 30	VDD2, VDD2 VDD1, VDD1	Supply pins for high current H-bridges, nominally 12VDC.
13, 21, 23, 32, 34	NC	Not connected. Not bonded internally.
33	VDDA	Analog 12VDC
36	CPUMP	Charge pump output (nominally 10V above VDDA)
1	5VGEN	Regulated 5VDC source used to supply power to the input section (pins 4 and 9).

2.3. Block Diagram IC1301



3. IC2201 (RH-IXB372WJZZ)

3.1. Pinning IC2201



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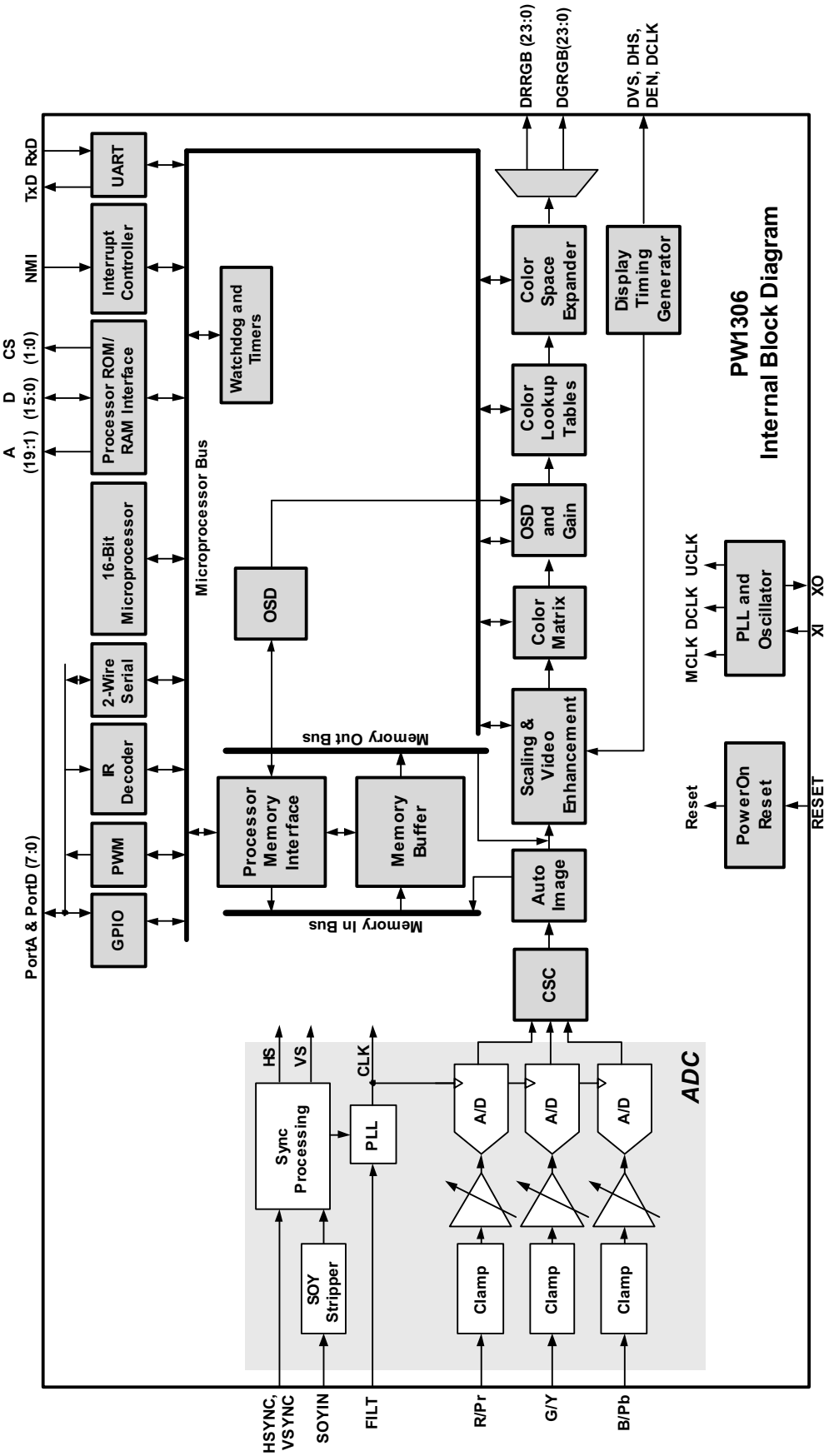
3.2. Video Image Processor Block Diagram, IC2201



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3.3. Description of Pins IC2201

Signal Descriptions for the Analog Interface Pins

Name	Pin	Type	Function
RAIN	37	AI	Red/Green/Blue Analog Inputs. These pins receive the Red, Green and Blue, or YPbPr/YCbCr/YUV analog signals from the analog video source. For proper operation of the clamp feature, these inputs must be AC-coupled.
GAIN	43	AI	
BAIN	50	AI	
SOGIN	44	AI	Analog Sync-On-Green or Sync-On-Luma input. Allows recovery of the HSYNC signal when this pin is AC-coupling to the Green (Red or Blue) analog signal source. If not used, this pin should be left unconnected.
FILT	23	AI	External PLL Loop Filter. When using the on-chip PLL, this pin must be connected to an external filter network.
HSYNC	65	DIS	Horizontal Synchronization Input. This digital input signal controls the horizontal scan frequency by synchronizing the start of the horizontal scan. The logic polarity of this signal is controlled by the HSPOL bit.
VSYNC	64	DIS	Vertical Synchronization Input. This digital signal controls the vertical scan frequency.

Display/Even Port Pin Descriptions

Name	Pin(s)	Type	Function
DCLK	106	OSR	DPort Pixel Clock. Output clock for the display port pixel data. DCLK is enabled by the DCLKEN bit and can be inverted by the DCPOL bit. DCLK can be set to run at ½ pixel rate, for dual pixel output mode, by setting the DCK2EN bit. The internal DCLK clock domain can be disabled by the DCLKOFF bit to reduce power consumption.
DCLKNEG	107	OSR	DPort Pixel Clock.
DVS	101	OS	DPort Vertical Sync. DVS can be either active-high or active-low depending on the VSPOL bit. Width and timing is controlled by the VPLSE and VDLY registers.
DHS	102	OS	DPort Vertical Sync. DHS can be either active-high or active-low depending on the HSPOL bit. Sync width can be controlled by the HPLSE register.
DEN	103	OS	DPort Pixel Enable. This signal is active whenever valid data is present. The polarity is specified by the DENPOL bit.

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3.3. Description of Pins IC2201, continued

Display/Even Port Pin Descriptions (continued)

Name	Pin(s)	Type	Function
DER0	98	OSR	DEPort Red Pixel Data. In dual pixel output mode these pins are the EVEN red outputs.
DER1	97	OSR	
DER2	94	OSR	
DER3	93	OSR	
DER4	92	OSR	
DER5	91	OSR	
DER6	90	OSR	
DER7	89	OSR	
DEG0	88	OSR	DEPort Green Pixel Data. In dual pixel output mode these pins are the EVEN green outputs.
DEG1	87	OSR	
DEG2	86	OSR	
DEG3	85	OSR	
DEG4	82	OSR	
DEG5	81	OSR	
DEG6	80	OSR	
DEG7	79	OSR	
DEB0	78	OSR	DEPort Blue Pixel Data. In dual pixel output mode these pins are the EVEN blue outputs.
DEB1	77	OSR	
DEB2	74	OSR	
DEB3	73	OSR	
DEB4	71	OSR	
DEB5	70	OSR	
DEB6	67	OSR	
DEB7	66	OSR	

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3.3. Description of Pins IC2201, continued

Port D Pin Descriptions

Name	Pin(s)	Type	Function
VCLK	72	I/O D5	DVPort Pixel Clock. The VCLK pin is used for DV port image capture. The polarity can be selected by the VCLKPOL bit.
VPEN	55	I/O D5	DVPort Pixel Enable. Used when external flow control capture mode is enabled by the EXTFCE bit. When VPEN is active, the input data is valid. The polarity can be selected by the PENPOL bit. Use of this pin allows non-contiguous input data.
PORTD0	63	I/O D5	PORTD(7:0) can be used as GPO (Output Only).
PORTD1	62	I/O D5	
PORTD2	61	I/O D5	
PORTD3	60	I/O D5	
PORTD4	59	I/O D5	
PORTD5	58	I/O D5	
PORTD6	57	I/O D5	
PORTD7	56	I/O D5	

Display/Odd Port Pin Descriptions

Name	Pin(s)	Type	Function
DOR0	131	I/O SR5	DOPort Red Pixel Data. In dual pixel output mode these pins are the ODD red outputs. In single pixel output mode these pins are not used.
DOR1	130	I/O SR5	
DOR2	129	I/O SR5	
DOR3	128	I/O SR5	
DOR4	127	I/O SR5	
DOR5	126	I/O SR5	
DOR6	125	I/O SR5	
DOR7	124	I/O SR5	

3.3. Description of Pins IC2201, continued

Display/Odd Port Pin Descriptions (continued)

Name	Pin(s)	Type	Function
DOG0	121	I/O SR5	DOPort Green Pixel Data. In dual pixel output mode these pins are the ODD green outputs. In single pixel output mode these pins are not used.
DOG1	120	I/O SR5	
DOG2	119	I/O SR5	
DOG3	118	I/O SR5	
DOG4	117	I/O SR5	
DOG5	116	I/O SR5	
DOG6	115	I/O SR5	
DOG7	114	I/O SR5	
DOB0	113	I/O SR5	DOPort Blue Pixel Data. In dual pixel output mode these pins are the ODD blue outputs. In single pixel output mode these pins are not used.
DOB1	112	I/O SR5	
DOB2	111	I/O SR5	
DOB3	110	I/O SR5	
DOB4	109	I/O SR5	
DOB5	108	I/O SR5	
DOB6	100	I/O SR5	
DOB7	99	I/O SR5	

Microprocessor Interface Pin Descriptions

Name	Pin(s)	Type	Function
WR	195	I/O D5	Write Enable. Low indicates a write to external RAM or other devices.
RD	196	I/O D5	Read Enable. Low indicates a read to external RAM or other devices.
ROMOE	197	OS	ROM Output Enable. Low output indicates a read from external ROM.
ROMWE	198	OS	ROM Write Enable. Low indicates a write to external ROM.
CS0	199	I/O D5	Miscellaneous Chip Select 0. Low selects external devices.
CS1	200	I/O D5	Miscellaneous Chip Select 1. When EXTRAMEN=0, low selects external devices. Chip select for external RAM. When EXTRAMEN=1, low selects external RAM. (RAMCS)
NMI	194	ID 5	Non-Maskable Interrupt. A high input triggers a non-maskable interrupt to the on-chip microprocessor.

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3.3. Description of Pins IC2201, continued

Microprocessor Interface Pin Descriptions (continued)

Name	Pin(s)	Type	Function
A1	193	I/O D5	Microprocessor address bus output bits (19:1).
A2	192	I/O D5	
A3	191	I/O D5	
A4	190	I/O D5	
A5	189	I/O D5	
A6	188	I/O D5	
A7	183	I/O D5	
A8	182	I/O D5	
A9	181	I/O D5	
A10	180	I/O D5	
A11	179	I/O D5	
A12	178	I/O D5	
A13	177	I/O D5	
A14	176	I/O D5	
A15	175	I/O D5	
A16	164	I/O D5	
A17	163	I/O D5	
A18	162	I/O D5	
A19	161	I/O D5	
D0	160	I/O D5	Microprocessor 16-bit bidirectional data bus.
D1	159	I/O D5	
D2	158	I/O D5	
D3	157	I/O D5	
D4	156	I/O D5	
D5	155	I/O D5	
D6	154	I/O D5	
D7	153	I/O D5	
D8	152	I/O D5	
D9	151	I/O D5	
D10	150	I/O D5	
D11	149	I/O D5	
D12	148	I/O D5	
D13	145	I/O D5	
D14	144	I/O D5	
D15	143	I/O D5	

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3.3. Description of Pins IC2201, continued

Peripheral Interface Pin Descriptions

Name	Pin(s)	Type	Function
PORTA0	208	I/O U5	General-purpose I/O port bit controlled by PADAT0 and PAEN0. This pin has one other possible function when EXTRAMEN=1. When EXTRAMEN=1 and PAEN0=0, PORTA1 is microprocessor address bit 0 (A0).
PORTA1	207	I/O U5	General-purpose I/O port bit controlled by PADAT1 and PAEN1. This pin has one other possible function when EXTRAMEN=1. When EXTRAMEN=1 and PAEN1=0, PORTA1 is microprocessor byte-high enable (BHEN)
PORTA2	206	I/O U5	General-purpose I/O port bit controlled by PADAT2 and PAEN2.
PORTA3	205	I/O U5	General-purpose I/O port bit controlled by PADAT3 and PAEN3. This pin can also function as an external clock source for DCLK (DCLKEXT) when both the internal PLLs are disabled or when DPLLBYP=1.
PORTA4	204	I/O U5	General-purpose I/O port bit controlled by PADAT4 and PAEN4. This pin has one other possible function when IREN=1. When IREN=1 and PAEN4=1, this pin can function as an input to the on-chip IR receiver 0. (IRRCVR0)
PORTA5	203	I/O U5	General-purpose I/O port bit controlled by PADAT5 and PAEN5. This pin has other possible functions depending on the IREN, EIEN registers. When EIEN=1 and PAEN5=1, this pin can function as an external interrupt to the on-chip CPU. When IREN=1 and PAEN5=1, this pin can function as an input to the on-chip IR receiver 1 (IRRCVR1). When DPLLBYP=1 and PAEN=0, this pin becomes the output of the DCLK PLL. This output can be routed through an external spread spectrum chip and then back into port A3 (DCLK input) to implement spread spectrum.
PORTA6	202	I/O U5	General-purpose I/O port bit controlled by PADAT6 and PAEN6. This pin has one other possible function when PREF1EN=1. When PREF1EN=1 and PAEN6=0, PORTA6 is a variable duty-cycle pulse reference generator (PWM) output controlled by PREF1HI and PREF1LO.
PORTA7	201	I/O D5	General-purpose I/O port bit controlled by PADAT7 and PAEN7. This pin has one other possible function when PREF0EN=1. When PREF0EN=1 and PAEN7=0, PORTA7 is a variable duty-cycle pulse reference generator (PWM) output controlled by PREF0HI and PREF0LO.
RXD	53	I/O U5	Serial Receive Data. RXD is the serial receive data for the on-chip serial port. This pin can also function as the 2-wire master data pin when 2WMEN=16.
TXD	54	I/O U5	Serial Transmit Data. TXD is the serial transmit data for the on-chip serial port. This pin can also function as the 2-wire master clock output pin when 2WMEN=16.

Miscellaneous Pin Descriptions

Name	Pin(s)	Type	Function
TESTEN	137	ID 5	Test Mode Enable. Connect to ground for normal operation.
RESET_N	132	BOD	Reset Output. RESET_N is a bidirectional pin that can be used to either drive external logic in the system or receive an external reset signal.
XI	169	I	Crystal Input. Connect to external crystal. XI can also function as the MCLK input LVTTL-level signal from an external oscillator.
XO	170	O	Crystal Output. Connect to external crystal.

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3.3. Description of Pins IC2201, continued

Power and Ground Pin Descriptions

Name	Pin(s)	Type	Function
VDD1	75, 95, 135, 146, 173, 184	P	1.8V digital core power.
VSS	76, 96, 136, 147, 174, 185	P	Digital core ground.
VDDQ3	68, 83, 104, 122, 133, 171, 186	P	3.3V digital I/O power.
VSSQ	69, 84, 105, 123, 134, 172, 187	P	Digital I/O ground.
VDDPA1	167	P	1.8V analog clock generator power.
VDDPA2	165	P	1.8V analog clock generator power.
VSSPA1	168	P	Clock generator analog ground.
VSSPA2	166	P	Clock generator analog ground.
PVD	22, 24, 26	P	1.8V PLL power.
PGND	21, 25, 27	P	PLL ground.
DVDD1	1, 3, 20	P	1.8V ADC digital power.
DGND1	2, 4, 19	P	ADC digital ground.
ALVDD	28, 29	P	1.8V ADC PLL power.
ALGND	30, 31	P	ADC PLL ground.
AVDD	6, 18, 32, 33, 36, 39, 41, 46, 48, 52	P	3.3V ADC analog power.
AGND	9, 12, 34, 35, 38, 40, 42, 45, 47, 49, 51	P	ADC analog ground.

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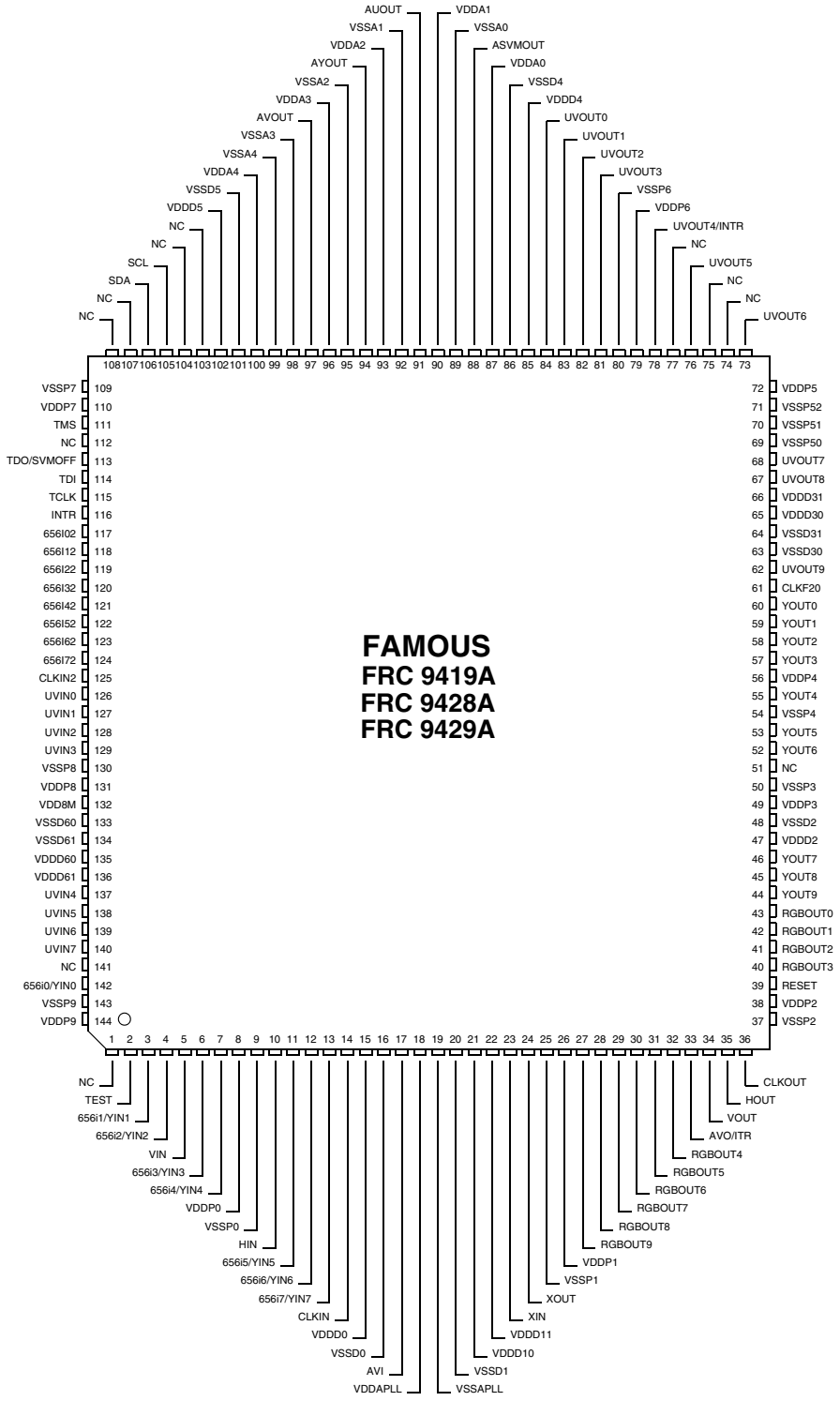
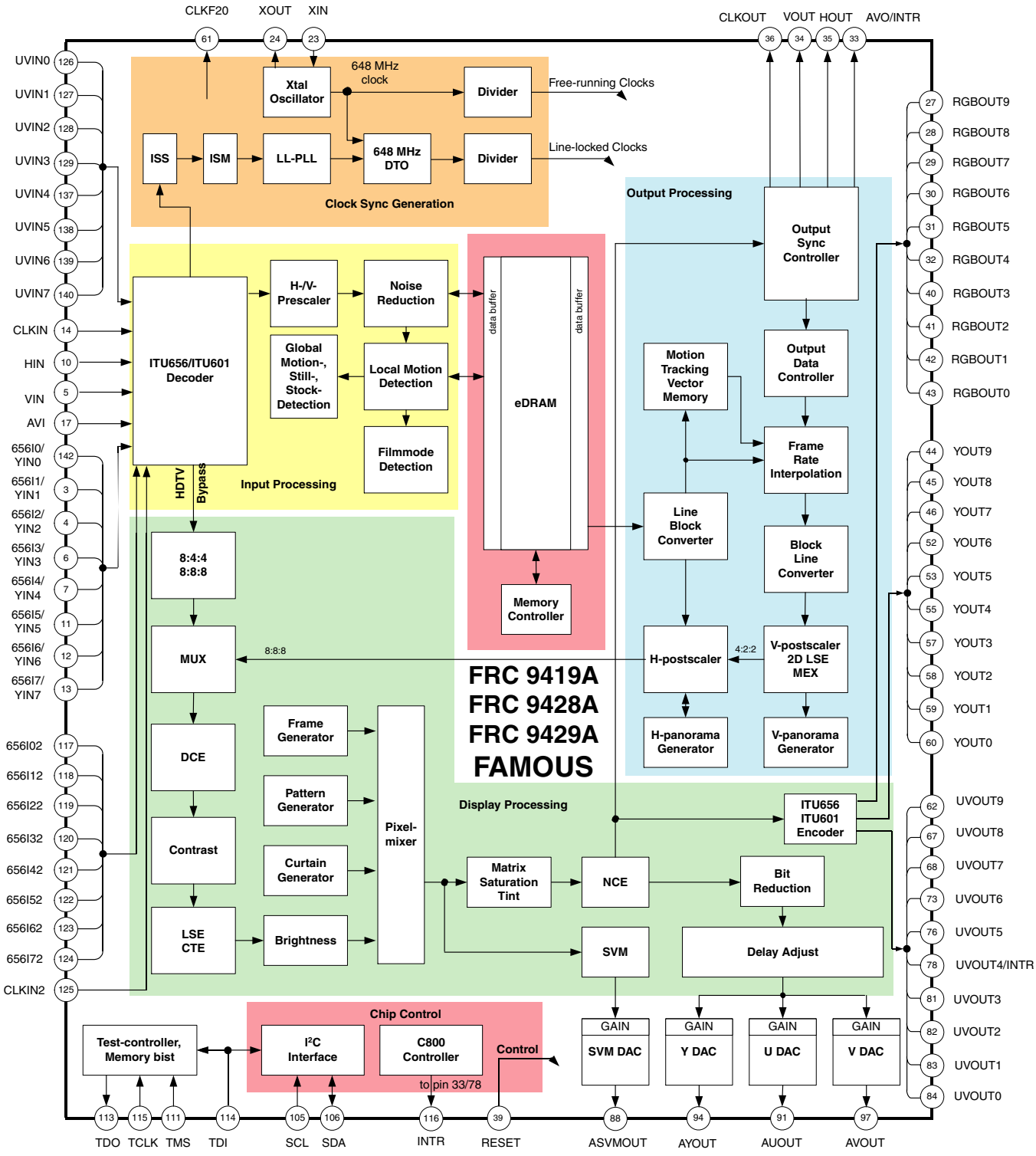
4. IC6004 (RH-IXB064WJZZ)

4.1. FRC Pin Configuration IC6004



4.2. Block Diagram IC6004



4.3. Description of Pins IC6004

NC = not connected, leave vacant
LV = not used, leave vacant

Pin No. PMQFP144-4	Pin Name	Type	Connection (If not used)	Short Description
1			NC	NC
2			LV	Test, do not use
3	656I1/YIN1	I	LV (pull down)	Digital (luminance) input
4	656I2/YIN2	I	LV (pull down)	Digital (luminance) input
5	VIN	I	LV (pull down)	Vertical sync input
6	656I3/YIN3	I	LV (pull down)	Digital (luminance) input
7	656I4/YIN4	I	LV (pull down)	Digital (luminance) input
8	VDDP0	S		Supply digital pad (3.3 V)
9	VSSP0	S		Supply digital pad (0 V)
10	HIN	I	LV (pull down)	Horizontal sync input
11	656I5/YIN5	I	LV (pull down)	Digital (luminance) input
12	656I6/YIN6	I	LV (pull down)	Digital (luminance) input
13	656I7/YIN7	I	LV (pull down)	Digital (luminance) input [MSB]
14	CLKIN	I		Clock input (max. 81.0 MHz)
15	VDDD0	S		Supply digital pad (1.8 V)
16	VSSD0	S		Supply digital pad (0 V)
17	AVI	I	LV (pull down)	Active video input
18	VDDAPLL	S		Supply analog PLL (1.8 V)
19	VSSAPLL	S		Supply analog PLL (0 V)
20	VSSD1	S		Supply digital core (0 V)
21	VDDD10	S		Supply digital core (1.8 V)
22	VDDD11	S		Supply digital core (1.8 V)
23	XIN	I		Crystal connection 1

4.3. Description of Pins IC6004, continued

Pin No. PMQFP144-4	Pin Name	Type	Connection (If not used)	Short Description
24	XOUT	O	LV (pull down)	Crystal connection 2
25	VSSP1	S		Supply digital pad (0 V)
26	VDDP1	S		Suplly digital pad (3.3 V)
27	RGBOUT9	O	LV	Tristate (**SELOMODE**=0) Digital (red: **SELRB**=0; blue: **SELRB**=1;) Output [MSB](**SELOMODE**=1)
28	RGBOUT8	O	LV	Tristate (**SELOMODE**=0) Digital (red: **SELRB**=0; blue: **SELRB**=1;) Output (**SELOMODE**=1)
29	RGBOUT7	O	LV	Tristate (**SELOMODE**=0) Digital (red: **SELRB**=0; blue: **SELRB**=1;) Output (**SELOMODE**=1)
30	RGBOUT6	O	LV	Tristate (**SELOMODE**=0) Digital (red: **SELRB**=0; blue: **SELRB**=1;) Output (**SELOMODE**=1)
31	RGBOUT5	O	LV	Tristate (**SELOMODE**=0) Digital (red: **SELRB**=0; blue: **SELRB**=1;) output (**SELOMODE**=1)
32	RGBOUT4	O	LV	Tristate (**SELOMODE**=0) Digital (red: **SELRB**=0; blue: **SELRB**=1;) Output (**SELOMODE**=1)
33	AVO/ITR	O	LV	Active video output (**CPUIRQ**=0) Interrupt signal output from µC (**CPUIRQ**=1) Static 0 (**CPUIRQ**=2) Static 1 (**CPUIRQ**=3)
34	VOUT	O	LV	Vertical sync output
35	HOUT	O	LV	Horizontal sync output. (Synchronized to 40.5-81 MHz **CLKOUTSEL72**=1) (Synchronized to 20.25-40.5 MHz **CLKOUTSEL72**=0 and **CLKOUTSEL**=1) (Synchronized to 15.1875-30.75 MHz **CLKOUTSEL72**=0 and **CLKOUTSEL**=0)
36	CLKOUT	O	LV	Output clock disabled (**CLKOUTON**=0) Output clock (max. 81 MHz) (**CLKOUT**=1) (40.5-81 MHz **CLKOUT72**=1 20.25-40.5 MHz **CLKOUT72**=0 and **CLKOUTSEL**=1 1515.1875-30.37 MHz **CLKOUT72**=0 and **CLKOUTSEL**=0)
37	VSSP2	S		Supply digital pad (0 V)
38	VDDP2	S		Supply digital pad (3.3 V)

4.3. Description of Pins IC6004, continued

Pin No. PMQFP144-4	Pin Name	Type	Connection (If not used)	Short Description
39	RESET	I		Reset input
40	RGBOUT3	O	LV	Tristate (**SELOMODE**=0) Digital (red: **SELRB**=0; blue: **SELRB**=1;) Output (**SELOMODE**=1)
41	RGBOUT2	O	LV	Tristate (**SELOMODE**=0) Digital (red: **SELRB**=0; blue: **SELRB**=1;) Output (**SELOMODE**=1)
42	RGBOUT1	O	LV	Tristate (**SELOMODE**=0) Digital (red: **SELRB**=0; blue: **SELRB**=1;) Output (**SELOMODE**=1)
43	RGBOUT0	O	LV	Tristate (**SELOMODE**=0) Digital (red: **SELRB**=0; blue: **SELRB**=1;) Output [LSB] (**SELOMODE**=1)
44	YOUT9	O	LV	Tristate (**ENITUE**=0) Digital (luminance/green) output [MSB] (**ENITUE**=1)
45	YOUT8	O	LV	Tristate (**ENITUE**=0) Digital (luminance/green) output (**ENITUE**=1)
46	YOUT7	O	LV	Tristate (**ENITUE**=0) Digital (luminance/green) output (**ENITUE**=1)
47	VDDD2	S		Supply digital core (1.8 V)
48	VSSD2	S		Supply digital core (0 V)
49	VDDP3	S		Supply digital pad (3.3 V)
50	VSSP3	S		Supply digital pad (0 V)
51			NC	NC
52	YOUT6	O	LV	Tristate (**ENITUE**=0) Digital (luminance/green) output (**ENITUE**=1)
53	YOUT5	O	LV	Tristate (**ENITUE**=0) Digital (luminance/green) output (**ENITUE**=1)
54	VSSP4	S		Supply digital pad (0 V)
55	YOUT4	O	LV	Tristate (**ENITUE**=0) Digital (luminance/green) output (**ENITUE**=1)
56	VDDP4	S		Supply digital pad (3.3 V)
57	YOUT3	O	LV	Tristate (**ENITUE**=0) Digital (luminance/green) output (**ENITUE**=1)
58	YOUT2	O	LV	Tristate (**ENITUE**=0) Digital (luminance/green) output (**ENITUE**=1)
59	YOUT1	O	LV	Tristate (**ENITUE**=0) Digital (luminance/green) output (**ENITUE**=1)

4.3. Description of Pins IC6004, continued

Pin No. PMQFP144-4	Pin Name	Type	Connection (If not used)	Short Description
60	YOUT0	O	LV	Tristate (**ENITUE**=0) Digital (luminance/green) output [LSB] (**ENITUE**=1)
61	CLKF20	O	LV	Output clock 20.25 MHz disabled (**CLKF20ON**=0) Output clock 20.25 MHz enabled (**CLKF20ON**=1)
62	UVOUT9	O	LV	Tristate (**ENITUE**=0) Digital (chrominance/blue) output [MSB] (**ENITUE**=1 and **SELRB**=0) Digital (chrominance/red) output [MSB] (**ENITUE**=1 and **SELRB**=1)
63	VSSD30	S		Supply digital core (0 V)
64	VSSD31	S		Supply digital core (0 V)
65	VDDD30	S		Supply digital core (1.8 V)
66	VDDD31	S		Supply digital core (1.8 V)
67	UVOUT8	O	LV	Tristate (**ENITUE**=0) Digital (chrominance/blue) output (**ENITUE**=1 and **SELRB**=0) Digital (chrominance/red) output (**ENITUE**=1 and **SELRB**=1)
68	UVOUT7	O	LV	Tristate (**ENITUE**=0) Digital (chrominance/blue) output (**ENITUE**=1 and **SELRB**=0) Digital (chrominance/red) output (**ENITUE**=1 and **SELRB**=1)
69	VSSP50	S		Supply digital pad (0 V)
70	VSSP51	S		Supply digital pad (0 V)
71	VSSP52	S		Supply digital pad (0 V)
72	VDDP5	S		Supply digital pad (3.3 V)
73	UVOUT6	O	LV	Tristate (**ENITUE**=0) Digital (chrominance/blue) output (**ENITUE**=1 and **SELRB**=0) Digital (chrominance/red) output (**ENITUE**=1 and **SELRB**=1)
74			NC	NC
75			NC	NC
76	UVOUT5	O	LV	Tristate (**ENITUE**=0) Digital (chrominance/blue) output (**ENITUE**=1 and **SELRB**=0) Digital (chrominance/red) output (**ENITUE**=1 and **SELRB**=1)
77			NC	NC

4.3. Description of Pins IC6004, continued

Pin No. PMQFP144-4	Pin Name	Type	Connection (If not used)	Short Description
94	AYOUT	O	LV	Middle level (**STANDBY**=0) Luminance output (**STANDBY**=1)
95	VSSA2	S		Supply analog DAC G/Y (0 V)
96	VDDA3	S		Supply analog DAC R/V (3.3 V)
97	AVOUT	O	LV	Middle level (**STANDBY**=0) Chrominance output (**STANDBY**=1)
98	VSSA3	S		Supply analog DAC R/V (0 V)
99	VSSA4	S		Supply analog band gap (0 V)
100	VDDA4	S		Supply analogband gap (3.3 V)
101	VSSD5	S		Supply digital core (0 V)
102	VDDD5	S		Supply digital core (1.8 V)
103			NC	NC
104			NC	NC
105	SCL	I/O		I²C bus clk
106	SDA	I/O		I²C bus data
107			NC	NC
108			NC	NC
109	VSSP7	S		Supply digital pad (0 V)
110	VDDP7	S		Supply digital pad (3.3 V)
111	TMS	I	Connect to VDD (3.3 V)	Test mode select (3.3 V)
112			NC	NC
113	TDO/ SVMOFF	O/I	LV	Test data out (**ACTSVMOFF**=1) SVM input signal (**ACTSVMOFF**=0)
114	TDI	I	Connect to VSS (0 V)	Test data in (0 V)
115	TCLK	I	Connect to VDD (3.3 V)	Test clock (3.3 V)
116	INTR	O	LV	Interrupt signal Static 0 (**CPUIRQ2**=00) Static 1 (**CPUIRQ2**=01) Interrupt signal output from μC (**CPUIRQ2**= 1x)
117	656I02	I	LV (pull down)	Digital (luminance) input [LSB]

4.3. Description of Pins IC6004, continued

Pin No. PMQFP144-4	Pin Name	Type	Connection (If not used)	Short Description
118	656I12	I	LV (pull down)	Digital (luminance) input
119	656I22	I	LV (pull down)	Digital (luminance) input
120	656I32	I	LV (pull down)	Digital (luminance) input
121	656I42	I	LV (pull down)	Digital (luminance) input
122	656I52	I	LV (pull down)	Digital (luminance) input
123	656I62	I	LV (pull down)	Digital (luminance) input
124	656I72	I	LV (pull down)	Digital (luminance) input
125	CLKIN2	I	LV (pull down)	Clock input [max. 81.0 MHz]
126	UVIN0	I	LV (pull down)	Digital (chrominance) input [LSB]
127	UVIN1	I	LV (pull down)	Digital (chrominance) input
128	UVIN2	I	LV (pull down)	Digital (chrominance) input
129	UVIN3	I	LV (pull down)	Digital (chrominance) input
130	VSSP8	S		Supply digital core (0 V)
131	VDDP8	S		Supply digital core (3.3 V)
132	VDD8M	S		Supply memory (1.8 V)
133	VSSD60	S		Supply digital core (0 V)
134	VSSD61	S		Supply digital core (0 V)
135	VDDD60	S		Supply digital core (1.8V)
136	VDDD61	S		Supply digital core (1.8 V)
137	UVIN4	I	LV (pull down)	Digital (chrominance) input
138	UVIN5	I	LV (pull down)	Digital (chrominance) input
139	UVIN6	I	LV (pull down)	Digital (chrominance) input
140	UVIN7	I	LV (pull down)	Digital (chrominance) input [MSB]

4.3. Description of Pins IC6004, continued

Pin No. PMQFP144-4	Pin Name	Type	Connection (If not used)	Short Description
141			NC	NC
142	656I0/YIN0	I	LV (pull down)	Digital (luminance) input [LSB]
143	VSSP9	S		Supply digital pad (0 V)
144	VDDP9	S		Supply digital pad (3.3 V)

PARTS LISTING

REPLACEMENT PARTS

Replacement parts which have special safety characteristics are identified in this manual. Electrical components having such features are identified by ⚠ in the Replacement Parts Listing.

The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended is not permitted.

Replacement parts not shown in this service manual may create shock fire, or other hazards.

HOW TO ORDER REPLACEMENT PARTS

To have your order completed promptly and correctly please supply the following information.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION
5. CODE
6. QUANTITY

MARK *: SPARE PARTS DELIVERY SECTION

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
			LCD UNIT			
		CLAMPA042FE13	LCD 26" PANEL UNIT LC26GA5E	J	CX	DW
		CLAMPA050VJ05	LCD 32" PANEL UNIT ADJ LC32GA5E	J	**	**
			LC-26GA5E PRINTED WIRING BOARDS			
	PWB-A	DUNTKC656WE03	MAIN LC26GA5E	S	BU	CN
	PWB-B	DUNTKC864WE03	OPERATION UNIT LC26GA5EE	S	AK	AV
	PWB-C	DUNTKC865WE03	R/C LED UNIT LC26GA5EE	S	AK	AW
	PWB-D	DUNTKC919FE01	LCD CONTROL LC26GA5E	J	BN	CE
	PWB-E	DUNTKC920WE01	COMPONENTS LC26GA5EE	S	AG	AS
⚠	PWB-F	RDENCA101WJZZ	POWER SYPPLY UNIT	J	BG	BY
⚠	PWB-G	RUNTKA094WJZZ	INVERTER PSD-0397	J	AZ	BN
⚠	PWB-H	RUNTKA095WJZZ	INVERTER PSD-0398	J	AM	AY
			LC-32GA5E PRINTED WIRING BOARDS			
	PWB-A	DUNTKC656WE08	MAIN LC32GA5E	S	BU	CN
	PWB-B	DUNTKC864WE08	OPERATION UNIT LC32GA5EE	S	AK	AV
	PWB-C	DUNTKC865WE08	R/C LED UNIT LC32GA5EE	S	AK	AW
	PWB-D	DUNTKC919FE02	LCD CONTROL LC32GA5E	J	BQ	CG
	PWB-E	DUNTKC920WE01	COMPONENTS LC26GA5EE	S	AG	AS
⚠	PWB-F	RDENCA102WJZZ	POWER SYPPLY UNIT	J	BH	BZ
⚠	PWB-G	RUNTKA096WJZZ	INVERTER PSD-0396-A	J	AV	BG
⚠	PWB-H	RUNTKA097WJZZ	INVERTER PSD-0396-B	J	AV	BG
⚠	PWB-I	RUNTKA098WJZZ	INVERTER PSD-0396-C	J	AN	AZ
			MAIN UNIT			
			INTEGRATED CIRCUITS			
	IC 0704	VHINJ78L08U-1	IC NJM78L08UA(TE1)	S	AA	AC
	IC 1001	RH-IXB058WJZZ	IC VCT49XY PQMQFP144-2 MICRONAS	S	AX	BM
	IC 1002	RH-IXA826WJZZ	IC M29W8000DB70N6	S	AF	AR
	IC 1002 (*)	CH - I XA826CJE0	WITH SOFT FLASH VCT M29W8000DB70N6 GA5E	S	AG	AT
	IC 1003	RH-IXA757WJN1	IC M24128-BWMN6T	S	AC	AH
	IC 1004	RH-IXB237WJZZ	IC LM1117DTX-1.8	S	AB	AE
	IC 1005	RH-IXB060WJZZ	IC IS62WV2568BLL ISSI	S	AG	AT
	IC 1006	RH-IXB233WJZZ	IC XC2C324VQG44C	S	AE	AN
	IC 1006 (*)	CH - I XB233CJE0	WI TH SOFT CPLD IC XC2C32 GA5E	S	AF	AP
	IC 1008	RH-IXB234WJZZ	IC SST25LF080334CS2AE	S	AG	AR
	IC 1008 (*)	CH - I XB234CJE0	WI TH SOFT SERI AL FLASH SST25LF080A GA5E	S	AH	AS
	IC 1009	RH-IXB235WJZZ	IC NCP301LSN18T1G ONSEMI	S	AA	AD
	IC 1010	VHITC7S14FU-1	IC TC7S14FU(TE85L)	S	AA	AC
	IC 1201	RH-IXB244WJZZ	IC SA612AD,118 PHILIPS	S	AD	AM
	IC 1301	VHITA2024++-1	IC TA2024	S	AL	AX
	IC 1351	VHIBH3543F+-1	IC BH3543F-E2-A1 ROHM	S	AB	AE
	IC 1401	VHIBU4052BF-1	IC BU4052BCF-E2	S	AA	AD
	IC 1402	VHINJM4560M-1	IC NJM4560M-T1	S	AA	AC
	IC 1403	VHIBU4053V/-1	IC BU4053BCFV-E2-A1 ROHM	S	AA	AD
	IC 1801	RH-IXB063WJZZ	IC PI5V330WEX PERICOM	S	AC	AG
	IC 1802	VHITC7S02U/-1	IC TC7S02FU(TE85L)	S	AA	AC
	IC 1803	VHITC7S08U/-1	IC TC7S08FU(TE85L)	S	AA	AC
	IC 2201	RH-IXB372WJZZ	IC PW1306-20QL PIXELWORKS	S	AQ	BB
	* IC With software recorded.					

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	IC 2202	VHIBR24L16F-1	IC BR24L16F-E2	S	AA	AD
	IC 2203	RH-IXB063WJZZ	IC PI5V330WEX PERICOM	S	AC	AG
	IC 2205	VHIBU4053V/-1	IC BU4053BCFV-E2-A1 ROHM	S	AA	AD
	IC 2206	RH-IXB266WJZZ	IC 74LCX32 FAIRCHILD	S	AA	AC
	IC 2207	VHITLVD823+-1	IC THC63LVD823	S	AM	AY
	IC 2210	RH-IXA764WJZZ	IC M29W800DT70N6	S	AG	AR
	IC 2210 (*)	CH - I XA764CJE0	WITH SOFT FLASH PW IC M29W800DT70N6 GA5E	S	AH	AT
	IC 2211	RH-IXB237WJZZ	IC LM1117DTX-1.8	S	AB	AE
	IC 2801	VHI24LC21//-1	EPROM 24LC21T-1/SN	S	AB	AE
	IC 6004	RH-IXB064WJZZ	IC FRC9429B MQFP144-4 MICRONAS	S	BB	BT
	IC 6008	RH-IXB237WJZZ	IC LM1117DTX-1.8	S	AB	AE
			TRANSISTORS			
	Q 0702	RH-TXA014WJZZ	TRT SI2312 VISHAY	S	AA	AC
	Q 1001	VS2SA1530AR-1	TRT SA1530A-T12-1R MITSUBISHI	S	AA	AA
	Q 1002	VS2SA1530AR-1	TRT SA1530A-T12-1R MITSUBISHI	S	AA	AA
	Q 1003	VS2SC3928AR-1	TRT 2SC3928AR-T12-1R MITSUBISHI	S	AA	AA
	Q 1004	VSDTC314TK/-1	TRT DTC314TKT146-A1 ROHM	S	AA	AB
	Q 1005	VSDTC314TK/-1	TRT DTC314TKT146-A1 ROHM	S	AA	AB
	Q 1008	VS2SC3928AR-1	TRT 2SC3928AR-T12-1R MITSUBISHI	S	AA	AA
	Q 1009	VS2SC3928AR-1	TRT 2SC3928AR-T12-1R MITSUBISHI	S	AA	AA
	Q 1010	VSDTC314TK/-1	TRT DTC314TKT146-A1 ROHM	S	AA	AB
	Q 1011	VSDTA143EKA-1	TRT DTA143EKA-T146	S	AA	AA
	Q 1012	VSDTA143EKA-1	TRT DTA143EKA-T146	S	AA	AA
	Q 1013	VSDTA143EKA-1	TRT DTA143EKA-T146	S	AA	AA
	Q 1014	RH-TXA023WJZZ	TRT FDN306P FAIRCHILD	S	AA	AC
	Q 1201	RH-TXA019WJZZ	TRT BF570	S	AA	AB
	Q 1202	VSDTC314TK/-1	TRT DTC314TKT146-A1 ROHM	S	AA	AB
	Q 1203	VSDTC314TK/-1	TRT DTC314TKT146-A1 ROHM	S	AA	AB
	Q 1204	RH-TXA019WJZZ	TRT BF570	S	AA	AB
	Q 1301	VSDTC314TK/-1	TRT DTC314TKT146-A1 ROHM	S	AA	AB
	Q 1302	VS2SC3928AR-1	TRT 2SC3928AR-T12-1R MITSUBISHI	S	AA	AA
	Q 1401	VS2SA1530AR-1	TRT SA1530A-T12-1R MITSUBISHI	S	AA	AA
	Q 1402	VS2SC3928AR-1	TRT 2SC3928AR-T12-1R MITSUBISHI	S	AA	AA
	Q 1403	VSDTC314TK/-1	TRT DTC314TKT146-A1 ROHM	S	AA	AB
	Q 1404	VSDTC314TK/-1	TRT DTC314TKT146-A1 ROHM	S	AA	AB
	Q 1406	VSDTC314TK/-1	TRT DTC314TKT146-A1 ROHM	S	AA	AB
	Q 1408	VSDTC314TK/-1	TRT DTC314TKT146-A1 ROHM	S	AA	AB
	Q 1409	VSDTC114EKA-1	TRT DTC114EKAT146	S	AA	AA
	Q 1410	VS2SA1530AR-1	TRT SA1530A-T12-1R MITSUBISHI	S	AA	AA
	Q 1411	VS2SC3928AR-1	TRT 2SC3928AR-T12-1R MITSUBISHI	S	AA	AA
	Q 1412	VSDTC314TK/-1	TRT DTC314TKT146-A1 ROHM	S	AA	AB
	Q 1413	VSDTC114EKA-1	TRT DTC114EKAT146	S	AA	AA
	Q 1801	VS2SC3928AR-1	TRT 2SC3928AR-T12-1R MITSUBISHI	S	AA	AA
	Q 1802	RH-TXA021WJZZ	TRT BF824 PHILIPS	S	AA	AB
	Q 1803	RH-TXA021WJZZ	TRT BF824 PHILIPS	S	AA	AB
	Q 1804	RH-TXA021WJZZ	TRT BF824 PHILIPS	S	AA	AB
	Q 1809	VSDTC114EKA-1	TRT DTC114EKAT146	S	AA	AA
			DIODES			
	D 1001	VHDHSU119//-1	DIODE HSU119TRF	S	AA	AB
	D 1004	VHDHSU119//-1	DIODE HSU119TRF	S	AA	AB
	D 1203	RH-EX0906CEZZ	ZENER DIODE UDZTE-17 30B	S	AA	AA
	D 1204	RH-DXA038WJZZ	DIODE BA792,118 PHILIPS	S	AA	AB
	D 1205	VHDHSU119//-1	DIODE HSU119TRF	S	AA	AB
	D 1303	RH-EX1259CEZZ	ZENER DIODE HZU8.2B2TRF	S	AA	AA
	D 1304	RH-EX1259CEZZ	ZENER DIODE HZU8.2B2TRF	S	AA	AA
	D 1305	RH-EX1259CEZZ	ZENER DIODE HZU8.2B2TRF	S	AA	AA
	D 1306	RH-EX1259CEZZ	ZENER DIODE HZU8.2B2TRF	S	AA	AA
	D 1307	RH-EX1245CEZZ	ZENER DIODE HZU5,1B3TRF	S	AA	AA
	D 1309	RH-EX1393CEZZ	ZENER DIODE UDZS TE-17 5,1B	S	AA	AA
	D 1310	RH-EXA088WJZZ	ZENER DIODE UDZS TE-17 3,9B ROHM	S	AA	AA
	D 1401	RH-EX1262CEZZ	ZENER DIODE HZU9.1B2TRF	S	AA	AA
	D 1402	RH-EX1262CEZZ	ZENER DIODE HZU9.1B2TRF	S	AA	AA
	D 1403	RH-EX1262CEZZ	ZENER DIODE HZU9.1B2TRF	S	AA	AA
	D 1404	RH-EX1262CEZZ	ZENER DIODE HZU9.1B2TRF	S	AA	AA
	D 1405	RH-EX1262CEZZ	ZENER DIODE HZU9.1B2TRF	S	AA	AA
	D 1406	RH-EX1262CEZZ	ZENER DIODE HZU9.1B2TRF	S	AA	AA
	D 1407	RH-EX1271CEZZ	ZENER DIODE HZU12B2TRF HITACHI	S	AA	AA
	* IC With software recorded.					

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
D 1408	VHDMA157A//-1	DIODE MA157(TX)	S	AA	AA
D 1409	VHDMA157A//-1	DIODE MA157(TX)	S	AA	AA
D 1410	VHDMA157A//-1	DIODE MA157(TX)	S	AA	AA
D 1411	VHDMA157A//-1	DIODE MA157(TX)	S	AA	AA
D 1412	RH-EX1250CEZZ	ZENER DIODE HZU6.2B2TRF	S	AA	AA
D 1413	RH-EX1264CEZZ	ZENER DIODE HZU10B1TRF HITACHI	S	AA	AA
D 1414	RH-EX1250CEZZ	ZENER DIODE HZU6.2B2TRF	S	AA	AA
D 1415	VHDMA157A//-1	DIODE MA157(TX)	S	AA	AA
D 1416	VHDMA157A//-1	DIODE MA157(TX)	S	AA	AA
D 1419	VHDMA157A//-1	DIODE MA157(TX)	S	AA	AA
D 1420	VHDMA157A//-1	DIODE MA157(TX)	S	AA	AA
D 1421	RH-EX1271CEZZ	ZENER DIODE HZU12B2TRF HITACHI	S	AA	AA
D 1422	RH-EX1271CEZZ	ZENER DIODE HZU12B2TRF HITACHI	S	AA	AA
D 1423	RH-EX1250CEZZ	ZENER DIODE HZU6.2B2TRF	S	AA	AA
D 1424	RH-EX1250CEZZ	ZENER DIODE HZU6.2B2TRF	S	AA	AA
D 1425	RH-EX1250CEZZ	ZENER DIODE HZU6.2B2TRF	S	AA	AA
D 1426	RH-EX1250CEZZ	ZENER DIODE HZU6.2B2TRF	S	AA	AA
D 1427	RH-EX1250CEZZ	ZENER DIODE HZU6.2B2TRF	S	AA	AA
D 1428	RH-EX1277CEZZ	ZENER DIODE HZU15B2TRF	S	AA	AA
D 1429	RH-EX1277CEZZ	ZENER DIODE HZU15B2TRF	S	AA	AA
D 1432	RH-EX1264CEZZ	ZENER DIODE HZU10B1TRF HITACHI	S	AA	AA
D 1801	VHDHSU119//-1	DIODE HSU119TRF	S	AA	AB
D 1802	VHDHSU119//-1	DIODE HSU119TRF	S	AA	AB
D 1803	VHDHSU119//-1	DIODE HSU119TRF	S	AA	AB
D 1804	VHDHSU119//-1	DIODE HSU119TRF	S	AA	AB
D 1807	VHDHSU119//-1	DIODE HSU119TRF	S	AA	AB
D 2203	VHDMA157A//-1	DIODE MA157(TX)	S	AA	AA
D 2204	VHDMA157A//-1	DIODE MA157(TX)	S	AA	AA
D 2801	VHDMA157A//-1	DIODE MA157(TX)	S	AA	AA
D 2802	RH-EX1247CEZZ	ZENER DIODE HZU5.6B2TRF HITACHI	S	AA	AA
D 2803	RH-EX1247CEZZ	ZENER DIODE HZU5.6B2TRF HITACHI	S	AA	AA
D 2804	VHDRB425D//-1	DIODE RB425DT146	S	AA	AB
D 2805	VHDMA157A//-1	DIODE MA157(TX)	S	AA	AA
D 2806	VHDMA157A//-1	DIODE MA157(TX)	S	AA	AA
D 6015	VHDHSU119//-1	DIODE HSU119TRF	S	AA	AB
D 6016	RH-EX1271CEZZ	ZENER DIODE HZU12B2TRF HITACHI	S	AA	AA
	PACKAGED CIRCUITS				
X 1001	RCRSCA112WJZZ	CRYSTAL SMD-49 20.250MHZ	S	AB	AE
X 1201	RCRSCA088WJZZ	CRYSTAL 43.1MHz 4730008417 ACAL	S	AB	AE
X 2201	RCRSB0222GEZZ	CRYSTAL HC-49/U03,14.31818MHz	S	AB	AF
X 6002	RCRSC0012CEZZ	CRYSTAL DSX840GA 20,25MHz	S	AB	AE
	COILS				
L 1001	VPCGM100MR25N	COIL LB2518T100M 10UH	S	AA	AA
L 1002	VPCGM100MR25N	COIL LB2518T100M 10UH	S	AA	AA
L 1003	VPCGM100MR25N	COIL LB2518T100M 10UH	S	AA	AA
L 1004	VPCGM100MR25N	COIL LB2518T100M 10UH	S	AA	AA
L 1005	VPCGM100MR25N	COIL LB2518T100M 10UH	S	AA	AA
L 1201	VPCGM100MR25N	COIL LB2518T100M 10UH	S	AA	AA
L 1202	VPD9M270J3R2N	PEAK COIL 27UH FSLM2520-270	S	AA	AA
L 1203	VPCGM100MR25N	COIL LB2518T100M 10UH	S	AA	AA
L 1204	VPD9MR82JR46N	PEAK COIL 0,82UH FSLM2520-R82	S	AA	AA
L 1205	VPCGM100MR25N	COIL LB2518T100M 10UH	S	AA	AA
L 1206	VPD9MR82JR46N	PEAK COIL 0,82UH FSLM2520-R82	S	AA	AA
L 1301	RCILP0367CEZZ	COIL TSL0808S-100K2R6	S	AA	AA
L 1302	RCILP0367CEZZ	COIL TSL0808S-100K2R6	S	AA	AA
L 1303	RCILP0367CEZZ	COIL TSL0808S-100K2R6	S	AA	AA
L 1304	RCILP0367CEZZ	COIL TSL0808S-100K2R6	S	AA	AA
L 1401	VPD9M2R7J1R0N	PEAK COIL 2,7UH FSLM2520-2R7	S	AA	AA
L 1402	VPD9M270J3R2N	PEAK COIL 27UH FSLM2520-270	S	AA	AA
L 1404	VPD9M270J3R2N	PEAK COIL 27UH FSLM2520-270	S	AA	AA
L 1405	VPD9M2R7J1R0N	PEAK COIL 2,7UH FSLM2520-2R7	S	AA	AA
L 1407	VPD9M2R7J1R0N	PEAK COIL 2,7UH FSLM2520-2R7	S	AA	AA
L 1601	VPCGM100MR25N	COIL LB2518T100M 10UH	S	AA	AA
L 1602	VPCGM100MR25N	COIL LB2518T100M 10UH	S	AA	AA
L 1807	VPCGM101M2R1N	COIL LB2518T101M 100UH	S	AA	AA
L 2201	VPD9M270J3R2N	PEAK COIL 27UH FSLM2520-270	S	AA	AA
L 2202	VPD9M270J3R2N	PEAK COIL 27UH FSLM2520-270	S	AA	AA
L 2203	VPD9M270J3R2N	PEAK COIL 27UH FSLM2520-270	S	AA	AA
L 2204	VPD9M270J3R2N	PEAK COIL 27UH FSLM2520-270	S	AA	AA
L 2205	VPD9M270J3R2N	PEAK COIL 27UH FSLM2520-270	S	AA	AA
L 2206	VPD9M270J3R2N	PEAK COIL 27UH FSLM2520-270	S	AA	AA
L 6009	VPCGM100MR25N	COIL LB2518T100M 10UH	S	AA	AA
L 6010	VPCGM100MR25N	COIL LB2518T100M 10UH	S	AA	AA
	FILTERS				
FL 3200	RCILFA071WJZZ	FILTER COIL DLP11SN900SL2L	S	AA	AC
FL 3201	RCILFA071WJZZ	FILTER COIL DLP11SN900SL2L	S	AA	AC
FL 3202	RCILFA071WJZZ	FILTER COIL DLP11SN900SL2L	S	AA	AC
FL 3203	RCILFA071WJZZ	FILTER COIL DLP11SN900SL2L	S	AA	AC
FL 3204	RCILFA071WJZZ	FILTER COIL DLP11SN900SL2L	S	AA	AC
FL 3205	RCILFA071WJZZ	FILTER COIL DLP11SN900SL2L	S	AA	AC
FL 3206	RCILFA071WJZZ	FILTER COIL DLP11SN900SL2L	S	AA	AC
FL 3207	RCILFA071WJZZ	FILTER COIL DLP11SN900SL2L	S	AA	AC
FL 3208	RCILFA071WJZZ	FILTER COIL DLP11SN900SL2L	S	AA	AC
FL 3209	RCILFA071WJZZ	FILTER COIL DLP11SN900SL2L	S	AA	AC
	CAPACITORS				
C 0705	VCEASN1HN225M	ELEC C 2,2UF 20% 50V MKA50VC2R2MD55	S	AA	AA
C 0706	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1001	VCEAPF1CN107M	ELEC C 100UF 20% 16V	S	AA	AA
C 1002	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1003	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1004	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1005	VCEAPF1CN107M	ELEC C 100UF 20% 16V	S	AA	AA
C 1006	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1007	VCEAPF1CN107M	ELEC C 100UF 20% 16V	S	AA	AA
C 1008	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1009	VCEAPF1CN107M	ELEC C 100UF 20% 16V	S	AA	AA
C 1010	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1011	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1012	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1013	VCCCCY1HH180J	CAPACITOR GRM39CK 180J 50 (1608)SMD	S	AA	AA
C 1014	VCCCCY1HH150J	CAPACITOR GRM39CK 150J 50 (1608)	S	AA	AA
C 1015	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1016	VCEAPF1CN107M	ELEC C 100UF 20% 16V	S	AA	AA
C 1017	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1018	VCEAPF1CN107M	ELEC C 100UF 20% 16V	S	AA	AA
C 1019	VCEAPF1HN106M	ELEC C 10UF 20% 50V	S	AA	AA
C 1020	VCEASH1CN337M	ELEC C 330UF 20% 16V 16CV330AX-3	S	AA	AC
C 1021	VCKYCY1CF224Z	CAPACITOR GRM39F 224Z 16 (1608)SMD	S	AA	AA
C 1022	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1023	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1024	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1025	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1031	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1032	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1033	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1061	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1062	RC-KZA043WJZZ	CERAM C 10UF 6,3V GRM21BB10J106ME01L	S	AA	AB
C 1063	VCCCCY1HH101J	CAPACITOR GRM39CK 101J 50 (1608)SMD	S	AA	AA
C 1064	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1065	RC-EZ1274CEZZ	ELEC C 1000UF 16V URZ1C102MHR1CV	S	AA	AC
C 1066	VCKYCY1CF224Z	CAPACITOR GRM39F 224Z 16 (1608)SMD	S	AA	AA
C 1201	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1202	VCEAPF1CN107M	ELEC C 100UF 20% 16V	S	AA	AA
C 1203	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1204	VCKYCY1HF103Z	CHIP CAP 0.01UF/50V	S	AA	AA
C 1205	VCEAPF1CN107M	ELEC C 100UF 20% 16V	S	AA	AA
C 1206	VCKYCY1AB224K	CAPACITOR GRM39B 224K 10 (1608)SMD	S	AA	AA
C 1207	VCKYCY1HF103Z	CHIP CAP 0.01UF/50V	S	AA	AA
C 1208	VCEASN1HN335M	ELEC C 3,3UF 20% 50V MKA50VC3R3MD55	S	AA	AA
C 1209	VCEAPF1CN107M	ELEC C 100UF 20% 16V	S	AA	AA
C 1210	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1211	VCKYCY1HF103Z	CHIP CAP 0.01UF/50V	S	AA	AA
C 1212	VCKYCY1HF103Z	CHIP CAP 0.01UF/50V	S	AA	AA
C 1213	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1214	VCCCCY1HH151J	CAPACITOR GRM39CK 151J 50 (1608)SMD	S	AA	AA
C 1215	VCCCCY1HH220J	CAPACITOR GRM39CK 220J 50 (1608)SMD	S	AA	AA

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
C 1216	VCCCCY1HH220J	CAPACITOR GRM39CK 220J 50 (1608)SMD	S	AA	AA
C 1217	VCKYCY1HF103Z	CHIP CAP 0.01UF/50V	S	AA	AA
C 1218	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1219	VCKYCY1HF103Z	CHIP CAP 0.01UF/50V	S	AA	AA
C 1220	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1301	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1302	VCEAPF1CN107M	ELEC C 100UF 20% 16V	S	AA	AA
C 1303	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1304	VCEASN1HN335M	ELEC C 3,3UF 20% 50V MKA50VC3R3MD55	S	AA	AA
C 1305	VCKYCY1HB682K	CAPACITOR GRM39B 682K 50 (1608)SMD	S	AA	AA
C 1306	VCKYCY1HB682K	CAPACITOR GRM39B 682K 50 (1608)SMD	S	AA	AA
C 1307	VCKYCY1HB102K	CAPACITOR GRM39B 102K 50 (1608)SMD	S	AA	AA
C 1308	VCKYCY1HB102K	CAPACITOR GRM39B 102K 50 (1608)SMD	S	AA	AA
C 1309	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 1310	VCEASY1EN227M	ELEC C 220UF 20% 25V MLA25VC220MH10	S	AA	AC
C 1311	VCKYTV1EF224Z	CERAM C 220NF 25V 2125SMD	S	AA	AA
C 1312	VCKYTV1EF224Z	CERAM C 220NF 25V 2125SMD	S	AA	AA
C 1313	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1314	VCKYTV1EF224Z	CERAM C 220NF 25V 2125SMD	S	AA	AA
C 1315	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1316	VCKYTQ1EF105Z	CERAM C 1UF 25V 3216SMD	S	AA	AA
C 1317	VCKYTV1EF474Z	CERAM C 470NF 25V 2125SMD	S	AA	AA
C 1318	VCKYTV1EF224Z	CERAM C 220NF 25V 2125SMD	S	AA	AA
C 1319	VCKYCY1AF105Z	CAPACITOR GRM39F 105Z 10 (1608)SMD	S	AA	AA
C 1320	VCKYCY1AF105Z	CAPACITOR GRM39F 105Z 10 (1608)SMD	S	AA	AA
C 1321	VCKYCY1AF105Z	CAPACITOR GRM39F 105Z 10 (1608)SMD	S	AA	AA
C 1322	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1325	RC-KZ0075TAZZ	CERAM C 2,2UF 16V GRM42-06B225K16PT	S	AA	AA
C 1326	RC-KZ0075TAZZ	CERAM C 2,2UF 16V GRM42-06B225K16PT	S	AA	AA
C 1327	VCKYCY1HB102K	CAPACITOR GRM39B 102K 50 (1608)SMD	S	AA	AA
C 1328	VCKYCY1HB102K	CAPACITOR GRM39B 102K 50 (1608)SMD	S	AA	AA
C 1329	VCKYTV1EB474K	CERAM C 470NF 25V 2125SMD	S	AA	AA
C 1330	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 1331	VCKYTQ1EF105Z	CERAM C 1UF 25V 3216SMD	S	AA	AA
C 1332	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 1333	VCEASY1EN227M	ELEC C 220UF 20% 25V MLA25VC220MH10	S	AA	AC
C 1351	VCKYCY1AF105Z	CAPACITOR GRM39F 105Z 10 (1608)SMD	S	AA	AA
C 1352	VCKYCY1AF105Z	CAPACITOR GRM39F 105Z 10 (1608)SMD	S	AA	AA
C 1353	VCEAPF1CN476M	ELEC C 47UF 20% 16V	S	AA	AA
C 1354	VCEAPF1CN476M	ELEC C 47UF 20% 16V	S	AA	AA
C 1355	VCEASX0JN476M	ELEC C 47UF 6,3V MVL6,3VC47ME60E1	S	AA	AA
C 1356	VCEASN1HN225M	ELEC C 2,2UF 20% 50V MKA50VC2R2MD55	S	AA	AA
C 1357	VCEASN1HN105M	ELEC C 1UF 20% 50V MKA50VC1MD55	S	AA	AA
C 1358	VCEASN1HN225M	ELEC C 2,2UF 20% 50V MKA50VC2R2MD55	S	AA	AA
C 1362	VCKYCY1HB102K	CAPACITOR GRM39B 102K 50 (1608)SMD	S	AA	AA
C 1363	VCKYCY1HB102K	CAPACITOR GRM39B 102K 50 (1608)SMD	S	AA	AA
C 1366	VCKYPA1HB681K	CERAM C 680PF 10% 50V	S	AA	AA
C 1367	VCKYPA1HB681K	CERAM C 680PF 10% 50V	S	AA	AA
C 1402	VCCCCY1HH391J	CAPACITOR GRM39CK 391J 50 (1608)SMD	S	AA	AA
C 1403	VCCCCY1HH391J	CAPACITOR GRM39CK 391J 50 (1608)SMD	S	AA	AA
C 1404	RC-KZ0075TAZZ	CERAM C 2,2UF 16V GRM42-06B225K16PT	S	AA	AA
C 1405	RC-KZ0075TAZZ	CERAM C 2,2UF 16V GRM42-06B225K16PT	S	AA	AA
C 1406	VCCCCY1HH221J	CAPACITOR GRM39CK 221J 50 (1608)SMD	S	AA	AA
C 1407	VCCCCY1HH221J	CAPACITOR GRM39CK 221J 50 (1608)SMD	S	AA	AA
C 1408	VCCCCY1HH101J	CAPACITOR GRM39CK 101J 50 (1608)SMD	S	AA	AA
C 1409	VCCCCY1HH101J	CAPACITOR GRM39CK 101J 50 (1608)SMD	S	AA	AA
C 1410	VCCCCY1HH331J	CAPACITOR GRM39CK 331J 50 (1608)SMD	S	AA	AA
C 1411	VCCCCY1HH331J	CAPACITOR GRM39CK 331J 50 (1608)SMD	S	AA	AA
C 1412	VCEAPF1CN106M	ELEC C 10UF 20% 16V	S	AA	AA
C 1413	VCEAPF1CN106M	ELEC C 10UF 20% 16V	S	AA	AA
C 1414	VCCCCY1HH101J	CAPACITOR GRM39CK 101J 50 (1608)SMD	S	AA	AA
C 1415	VCCCCY1HH101J	CAPACITOR GRM39CK 101J 50 (1608)SMD	S	AA	AA
C 1416	VCEAPF1CN106M	ELEC C 10UF 20% 16V	S	AA	AA
C 1417	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1418	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1419	VCKYTV1EB474K	CERAM C 470NF 25V 2125SMD	S	AA	AA
C 1420	VCKYTV1EB474K	CERAM C 470NF 25V 2125SMD	S	AA	AA
C 1421	VCEAPF1CN106M	ELEC C 10UF 20% 16V	S	AA	AA
C 1422	VCEAPF1CN106M	ELEC C 10UF 20% 16V	S	AA	AA
C 1423	VCEAPF1CN106M	ELEC C 10UF 20% 16V	S	AA	AA
C 1424	VCCCCY1HH101J	CAPACITOR GRM39CK 101J 50 (1608)SMD	S	AA	AA
C 1425	VCCCCY1HH101J	CAPACITOR GRM39CK 101J 50 (1608)SMD	S	AA	AA
C 1426	VCEAPF1CN107M	ELEC C 100UF 20% 16V	S	AA	AA
C 1427	VCEAPF1CN226M	ELEC C 22UF 20% 16V	S	AA	AA
C 1429	VCEAPF1CN107M	ELEC C 100UF 20% 16V	S	AA	AA
C 1430	VCEAPF1CN226M	ELEC C 22UF 20% 16V	S	AA	AA
C 1439	VCEAPF1CN106M	ELEC C 10UF 20% 16V	S	AA	AA
C 1440	VCEAPF1CN106M	ELEC C 10UF 20% 16V	S	AA	AA
C 1441	VCKYCY1CF334Z	CAPACITOR GRM39F 334Z 16 (1608)SMD	S	AA	AA
C 1442	VCKYCY1HB102K	CAPACITOR GRM39B 102K 50 (1608)SMD	S	AA	AA
C 1443	VCKYCY1HB102K	CAPACITOR GRM39B 102K 50 (1608)SMD	S	AA	AA
C 1444	VCKYCY1CF334Z	CAPACITOR GRM39F 334Z 16 (1608)SMD	S	AA	AA
C 1445	VCCCCY1HH391J	CAPACITOR GRM39CK 391J 50 (1608)SMD	S	AA	AA
C 1446	VCCCCY1HH391J	CAPACITOR GRM39CK 391J 50 (1608)SMD	S	AA	AA
C 1447	RC-KZ0075TAZZ	CERAM C 2,2UF 16V GRM42-06B225K16PT	S	AA	AA
C 1448	VCCCCY1HH101J	CAPACITOR GRM39CK 101J 50 (1608)SMD	S	AA	AA
C 1449	VCCCCY1HH101J	CAPACITOR GRM39CK 101J 50 (1608)SMD	S	AA	AA
C 1450	RC-KZ0075TAZZ	CERAM C 2,2UF 16V GRM42-06B225K16PT	S	AA	AA
C 1451	VCCCCY1HH101J	CAPACITOR GRM39CK 101J 50 (1608)SMD	S	AA	AA
C 1452	VCCCCY1HH101J	CAPACITOR GRM39CK 101J 50 (1608)SMD	S	AA	AA
C 1461	VCKYCY1HB102K	CAPACITOR GRM39B 102K 50 (1608)SMD	S	AA	AA
C 1462	VCKYCY1HB102K	CAPACITOR GRM39B 102K 50 (1608)SMD	S	AA	AA
C 1463	RC-KZ0075TAZZ	CERAM C 2,2UF 16V GRM42-06B225K16PT	S	AA	AA
C 1464	RC-KZ0075TAZZ	CERAM C 2,2UF 16V GRM42-06B225K16PT	S	AA	AA
C 1465	VCCCCY1HH391J	CAPACITOR GRM39CK 391J 50 (1608)SMD	S	AA	AA
C 1466	VCCCCY1HH391J	CAPACITOR GRM39CK 391J 50 (1608)SMD	S	AA	AA
C 1467	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
C 1470	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
C 1472	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
C 1476	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1501	VCKYCY1CB683K	CAPACITOR GRM39B 683K 16 (1608)SMD	S	AA	AA
C 1502	VCKYCY1CB473K	S.CHIP CAP 0.047UF/16V T	S	AA	AA
C 1601	VCEAPF1CN107M	ELEC C 100UF 20% 16V	S	AA	AA
C 1602	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1603	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1604	VCEAPF1CN107M	ELEC C 100UF 20% 16V	S	AA	AA
C 1804	VCKYCY1HB102K	CAPACITOR GRM39B 102K 50 (1608)SMD	S	AA	AA
C 1805	VCKYCY1HB102K	CAPACITOR GRM39B 102K 50 (1608)SMD	S	AA	AA
C 1806	VCKYCY1HB102K	CAPACITOR GRM39B 102K 50 (1608)SMD	S	AA	AA
C 1807	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1808	VCEASN1EN475M	ELEC C 4,7UF 20% 25V MKA25VC4R7MD55	S	AA	AA
C 1809	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1810	VCEAPF1CN107M	ELEC C 100UF 20% 16V	S	AA	AA
C 1814	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1815	VCKYCY1HF103Z	CHIP CAP 0.01UF/50V	S	AA	AA
C 1816	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1817	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1819	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1820	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1821	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1822	VCKYCY1HF103Z	CHIP CAP 0.01UF/50V	S	AA	AA
C 1823	VCEAPF1CN106M	ELEC C 10UF 20% 16V	S	AA	AA
C 1824	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
C 1826	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
C 1828	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
C 1830	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
C 1831	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
C 1832	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
C 1833	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1834	VCEASH0JN108M	ELEC C 1000UF 20% 6,3V	S	AA	AC
C 1835	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1838	VCEAPF1CN106M	ELEC C 10UF 20% 16V	S	AA	AA
C 1839	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1840	VCEAPF1CN106M	ELEC C 10UF 20% 16V	S	AA	AA
C 1842	VCEAPF1CN106M	ELEC C 10UF 20% 16V	S	AA	AA
C 1858	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1859	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 1860	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
C 2201	VCKYCY1AB224K	CAPACITOR GRM39B 224K 10 (1608)SMD	S	AA	AA
C 2202	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2203	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2204	VCCCCY1HH180J	CAPACITOR GRM39CK 180J 50 (1608)SMD	S	AA	AA
C 2205	VCCCCY1HH180J	CAPACITOR GRM39CK 180J 50 (1608)SMD	S	AA	AA
C 2206	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2207	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2208	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2209	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2210	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2211	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2212	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2213	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2214	VCKYCY1AB224K	CAPACITOR GRM39B 224K 10 (1608)SMD	S	AA	AA
C 2215	VCKYCY1AB224K	CAPACITOR GRM39B 224K 10 (1608)SMD	S	AA	AA
C 2216	VCKYCY1AB224K	CAPACITOR GRM39B 224K 10 (1608)SMD	S	AA	AA
C 2217	RC-KZ0117TAZZ	CERAM C 4,7UF 6,3V GRM40-034B475K6,3PT	S	AA	AA
C 2218	RC-KZ0117TAZZ	CERAM C 4,7UF 6,3V GRM40-034B475K6,3PT	S	AA	AA
C 2219	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2220	RC-KZ0117TAZZ	CERAM C 4,7UF 6,3V GRM40-034B475K6,3PT	S	AA	AA
C 2221	VCKYCY1AB224K	CAPACITOR GRM39B 224K 10 (1608)SMD	S	AA	AA
C 2222	VCKYCY1AB224K	CAPACITOR GRM39B 224K 10 (1608)SMD	S	AA	AA
C 2223	VCKYCY1HB392K	CAPACITOR GRM39B 392K 50 (1608)SMD	S	AA	AA
C 2224	VCKYCY1HF393Z	CAPACITOR GRM39F 393Z 50 (1608)SMD	S	AA	AA
C 2225	VCKYCY1AB224K	CAPACITOR GRM39B 224K 10 (1608)SMD	S	AA	AA
C 2226	RC-KZ0117TAZZ	CERAM C 4,7UF 6,3V GRM40-034B475K6,3PT	S	AA	AA
C 2227	VCKYCY1AB105K	CAPACITOR GRM39B 105K 10 (1608)SMD	S	AA	AA
C 2228	RC-KZ0117TAZZ	CERAM C 4,7UF 6,3V GRM40-034B475K6,3PT	S	AA	AA
C 2229	VCKYCY1AB224K	CAPACITOR GRM39B 224K 10 (1608)SMD	S	AA	AA
C 2230	VCKYCY1AB224K	CAPACITOR GRM39B 224K 10 (1608)SMD	S	AA	AA
C 2231	VCKYCY1AB224K	CAPACITOR GRM39B 224K 10 (1608)SMD	S	AA	AA
C 2232	VCKYCY1AB224K	CAPACITOR GRM39B 224K 10 (1608)SMD	S	AA	AA
C 2233	VCKYCY1AB224K	CAPACITOR GRM39B 224K 10 (1608)SMD	S	AA	AA
C 2234	VCKYCY1AB224K	CAPACITOR GRM39B 224K 10 (1608)SMD	S	AA	AA
C 2235	VCCCCY1HH120J	S. CHIP CAP 12PF/50V TAPED	S	AA	AA
C 2236	VCCCCY1HH120J	S. CHIP CAP 12PF/50V TAPED	S	AA	AA
C 2237	VCCCCY1HH120J	S. CHIP CAP 12PF/50V TAPED	S	AA	AA
C 2238	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2239	VCCCCY1HH560J	CAPACITOR GRM39CK 560J 50 (1608)SMD	S	AA	AA
C 2240	VCCCCY1HH560J	CAPACITOR GRM39CK 560J 50 (1608)SMD	S	AA	AA
C 2241	VCEAPF1CN106M	ELEC C 10UF 20% 16V	S	AA	AA
C 2242	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2243	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2248	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2251	VCEAPF1CN106M	ELEC C 10UF 20% 16V	S	AA	AA
C 2252	VCEAPF1CN106M	ELEC C 10UF 20% 16V	S	AA	AA
C 2253	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2255	VCKYCY1HB222K	CAPACITOR GRM39B 222K 50 (1608)SMD	S	AA	AA
C 2256	VCKYCY1HB222K	CAPACITOR GRM39B 222K 50 (1608)SMD	S	AA	AA
C 2257	VCKYCY1HB222K	CAPACITOR GRM39B 222K 50 (1608)SMD	S	AA	AA
C 2258	VCEASH0JN477M	ELEC C 470UF 20% 6,3V CV-AX-A2	S	AA	AC
C 2259	VCKYCY1HB102K	CAPACITOR GRM39B 102K 50 (1608)SMD	S	AA	AA
C 2264	VCKYCY1HF103Z	CHIP CAP 0.01UF/50V	S	AA	AA
C 2265	VCKYCY1HF103Z	CHIP CAP 0.01UF/50V	S	AA	AA
C 2266	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2267	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2268	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2269	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2270	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2271	VCKYCY1HF103Z	CHIP CAP 0.01UF/50V	S	AA	AA
C 2272	VCKYCY1HF103Z	CHIP CAP 0.01UF/50V	S	AA	AA
C 2273	VCKYCY1HF103Z	CHIP CAP 0.01UF/50V	S	AA	AA
C 2274	VCKYCY1HF103Z	CHIP CAP 0.01UF/50V	S	AA	AA
C 2275	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2276	VCEASX1CN476M	ELEC C 47UF 16V MVL16VC47MF60E1	S	AA	AB
C 2277	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 2284	VCCCCY1HH150J	CAPACITOR GRM39CK 150J 50 (1608)	S	AA	AA
C 2285	VCEA4A1CN107M	ELEC C 100UF 20% 16V	S	AA	AA
C 2286	VCEA4A1VN476M	ELEC C 47UF 20% 35V	S	AA	AA
C 2287	VCCCCY1HH101J	CAPACITOR GRM39CK 101J 50 (1608)SMD	S	AA	AA
C 2288	VCCCCY1HH101J	CAPACITOR GRM39CK 101J 50 (1608)SMD	S	AA	AA
C 2801	VCKYCY1CF224Z	CAPACITOR GRM39F 224Z 16 (1608)SMD	S	AA	AA
C 2802	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6001	RC-KZA043WJZZ	CERAM C 10UF 6,3V GRM21BB10J106ME01L	S	AA	AB
C 6064	VCEAPF1CN106M	ELEC C 10UF 20% 16V	S	AA	AA
C 6108	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6109	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6110	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6111	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6112	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6113	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6114	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6115	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6116	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6118	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6120	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6121	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6122	RC-KZA043WJZZ	CERAM C 10UF 6,3V GRM21BB10J106ME01L	S	AA	AB
C 6123	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6124	VCCCCY1HH220J	CAPACITOR GRM39CK 220J 50 (1608)SMD	S	AA	AA
C 6125	VCCCCY1HH220J	CAPACITOR GRM39CK 220J 50 (1608)SMD	S	AA	AA
C 6126	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6127	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6128	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6129	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6130	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6131	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6132	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6133	VCKYCY1EF104Z	CAPACITOR GRM39F 104Z 25 (1608)SMD	S	AA	AA
C 6137	VCCCCY1HH181J	CAPACITOR GRM39CK 181J 50 (1608)SMD	S	AA	AA
C 6138	VCCCCY1HH181J	CAPACITOR GRM39CK 181J 50 (1608)SMD	S	AA	AA
C 6139	VCCCCY1HH181J	CAPACITOR GRM39CK 181J 50 (1608)SMD	S	AA	AA
	RESISTORS				
R 0705	VRS-CY1JF103J	RES 0603 10KOHM 5% 1/10W SMD	S	AA	AA
R 1002	VRS-CY1JF152J	S. CHIP RES. 1.5K-OHM	S	AA	AA
R 1003	VRS-CY1JF152J	S. CHIP RES. 1.5K-OHM	S	AA	AA
R 1004	VRS-CY1JF332J	RES 0603 3,3KOHM 5% 1/10W SMD	S	AA	AA
R 1005	VRS-CY1JF332J	RES 0603 3,3KOHM 5% 1/10W SMD	S	AA	AA
R 1006	VRS-CY1JF101J	RES 0603 100 OHM 5% 1/10W SMD	S	AA	AA
R 1007	VRS-CY1JF101J	RES 0603 100 OHM 5% 1/10W SMD	S	AA	AA
R 1008	VRS-CY1JF103J	RES 0603 10KOHM 5% 1/10W SMD	S	AA	AA
R 1009	VRS-CY1JF332J	RES 0603 3,3KOHM 5% 1/10W SMD	S	AA	AA
R 1010	VRS-CY1JF102J	RES 0603 1KOHM 5% 1/10W SMD	S	AA	AA
R 1011	VRS-CY1JF105J	RES 0603 1MOHM 5% 1/10W SMD	S	AA	AA
R 1012	VRS-CY1JF222J	RES 0603 2,2KOHM 5% 1/10W SMD	S	AA	AA
R 1013	VRS-CY1JF152J	S. CHIP RES. 1.5K-OHM	S	AA	AA
R 1014	VRS-CY1JF223J	RES 0603 22KOHM 5% 1/10W SMD	S	AA	AA
R 1015	VRS-CY1JF473J	RES 0603 47KOHM 5% 1/10W SMD	S	AA	AA
R 1016	VRS-CY1JF101J	RES 0603 100 OHM 5% 1/10W SMD	S	AA	AA
R 1017	VRS-CY1JF103J	RES 0603 10KOHM 5% 1/10W SMD	S	AA	AA
R 1018	VRS-CA1JF220J	RES 22 OHM 5% 1/16W SMD	S	AA	AA
R 1020	VRS-CY1JF102J	RES 0603 1KOHM 5% 1/10W SMD	S	AA	AA
R 1026	VRS-CY1JF682J	RES 0603 6,8KOHM 5% 1/10W SMD	S	AA	AA
R 1027	VRS-CY1JF273J	S. CHIP RES. 27-OHM TAPED	S	AA	AA
R 1028	VRS-CY1JF682J	RES 0603 6,8KOHM 5% 1/10W SMD	S	AA	AA
R 1029	VRS-CY1JF101J	RES 0603 100 OHM 5% 1/10W SMD	S	AA	AA
R 1030	VRS-CY1JF682J	RES 0603 6,8KOHM 5% 1/10W SMD	S	AA	AA
R 1032	VRS-CY1JF102J	RES 0603 1KOHM 5% 1/10W SMD	S	AA	AA
R 1033	VRS-CY1JF102J	RES 0603 1KOHM 5% 1/10W SMD	S	AA	AA
R 1034	VRS-CY1JF101J	RES 0603 100 OHM 5% 1/10W SMD	S	AA	AA
R 1035	VRS-CY1JF681J	RES 0603 680 OHM 5% 1/10W SMD	S	AA	AA
R 1036	VRS-CY1JF332J	RES 0603 3,3KOHM 5% 1/10W SMD	S	AA	AA
R 1037	VRS-TQ2BD101J	RES OX 100 OHM 5% 1/8W SMD	S	AA	AA
R 1038	VRS-CY1JF473J	RES 0603 47KOHM 5% 1/10W SMD	S	AA	AA
R 1039	VRS-CY1JF102J	RES 0603 1KOHM 5% 1/10W SMD	S	AA	AA
R 1040	VRS-CY1JF392J	RES 0603 3,9KOHM 5% 1/10W SMD	S	AA	AA
R 1201	VRS-CY1JF682J	RES 0603 6,8KOHM 5% 1/10W SMD	S	AA	AA

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
R 1202	VRS-CY1JF512J	RES 0603 5,1KOHM 5% 1/10W SMD	S	AA	AA
R 1210	VRS-CY1JF102J	RES 0603 1KOHM 5% 1/10W SMD	S	AA	AA
R 1211	VRS-CY1JF821J	RES 0603 820 OHM 5% 1/10W SMD	S	AA	AA
R 1212	VRS-CY1JF681J	RES 0603 680 OHM 5% 1/10W SMD	S	AA	AA
R 1213	VRS-CY1JF222J	RES 0603 2,2KOHM 5% 1/10W SMD	S	AA	AA
R 1214	VRS-CY1JF331J	RES 0603 330 OHM 5% 1/10W SMD	S	AA	AA
R 1215	VRS-TQ2BD220J	OX RES 22 OHM 5% 1/8W SMD	S	AA	AA
R 1216	VRS-CY1JF391J	RES 0603 390 OHM 5% 1/10W SMD	S	AA	AA
R 1217	VRS-CY1JF332J	RES 0603 3,3KOHM 5% 1/10W SMD	S	AA	AA
R 1218	VRS-CY1JF122J	RES 0603 1,2KOHM 5% 1/10W SMD	S	AA	AA
R 1219	VRS-CY1JF680J	RES 0603 68 OHM 5% 1/10W SMD	S	AA	AA
R 1301	VRS-TQ2BD220J	OX RES 22 OHM 5% 1/8W SMD	S	AA	AA
R 1302	VRS-CY1JF102J	RES 0603 1KOHM 5% 1/10W SMD	S	AA	AA
R 1303	VRS-CY1JF102J	RES 0603 1KOHM 5% 1/10W SMD	S	AA	AA
R 1305	VRS-CY1JF223J	RES 0603 22KOHM 5% 1/10W SMD	S	AA	AA
R 1306	VRS-CY1JF223J	RES 0603 22KOHM 5% 1/10W SMD	S	AA	AA
R 1307	VRS-TW2ED100J	RES MCR25 10 OHM 5% 1/4W SMD	S	AA	AA
R 1308	VRS-CY1JF473J	RES 0603 47KOHM 5% 1/10W SMD	S	AA	AA
R 1309	VRS-TW2ED100J	RES MCR25 10 OHM 5% 1/4W SMD	S	AA	AA
R 1310	VRS-CY1JF473J	RES 0603 47KOHM 5% 1/10W SMD	S	AA	AA
R 1312	VRS-CY1JF822F	RES 0603 8,2KOHM 1% 1/10W SMD	S	AA	AA
R 1313	VRS-CY1JF104J	RES 0603 100KOHM 5% 1/10W SMD	S	AA	AA
R 1314	VRS-CY1JF471J	RES 0603 470 OHM 5% 1/10W SMD	S	AA	AA
R 1315	VRS-CY1JF471J	RES 0603 470 OHM 5% 1/10W SMD	S	AA	AA
R 1316	VRS-CY1JF105J	RES 0603 1MOHM 5% 1/10W SMD	S	AA	AA
R 1317	VRS-CY1JF105J	RES 0603 1MOHM 5% 1/10W SMD	S	AA	AA
R 1318	VRS-CY1JF100J	RES 0603 10 OHM 5% 1/10W SMD	S	AA	AA
R 1351	VRS-CY1JF332J	RES 0603 3,3KOHM 5% 1/10W SMD	S	AA	AA
R 1352	VRS-CY1JF332J	RES 0603 3,3KOHM 5% 1/10W SMD	S	AA	AA
R 1354	VRS-CY1JF221J	RES 0603 220 OHM 5% 1/10W SMD	S	AA	AA
R 1355	VRS-CY1JF221J	RES 0603 220 OHM 5% 1/10W SMD	S	AA	AA
R 1356	VRS-CY1JF102J	RES 0603 1KOHM 5% 1/10W SMD	S	AA	AA
R 1357	VRS-CY1JF104J	RES 0603 100KOHM 5% 1/10W SMD	S	AA	AA
R 1358	VRS-CY1JF472J	RES 0603 4,7KOHM 5% 1/10W SMD	S	AA	AA
R 1362	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
R 1363	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
R 1364	VRS-CY1JF222J	RES 0603 2,2KOHM 5% 1/10W SMD	S	AA	AA
R 1365	VRS-CY1JF105J	RES 0603 1MOHM 5% 1/10W SMD	S	AA	AA
R 1402	VRS-CY1JF103J	RES 0603 10KOHM 5% 1/10W SMD	S	AA	AA
R 1403	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 1404	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 1405	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 1406	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 1407	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 1408	VRS-CY1JF562J	RES 0603 5,6KOHM 5% 1/10W SMD	S	AA	AA
R 1409	VRS-CY1JF223J	RES 0603 22KOHM 5% 1/10W SMD	S	AA	AA
R 1410	VRS-CY1JF101J	RES 0603 100 OHM 5% 1/10W SMD	S	AA	AA
R 1411	VRS-CY1JF101J	RES 0603 100 OHM 5% 1/10W SMD	S	AA	AA
R 1412	VRS-CY1JF104J	RES 0603 100KOHM 5% 1/10W SMD	S	AA	AA
R 1413	VRS-CY1JF104J	RES 0603 100KOHM 5% 1/10W SMD	S	AA	AA
R 1414	VRS-CY1JF271J	S.CHIP RESIS. 270OHM TAPED	S	AA	AA
R 1415	VRS-CY1JF271J	S.CHIP RESIS. 270OHM TAPED	S	AA	AA
R 1416	VRS-CY1JF104J	RES 0603 100KOHM 5% 1/10W SMD	S	AA	AA
R 1417	VRS-CY1JF104J	RES 0603 100KOHM 5% 1/10W SMD	S	AA	AA
R 1418	VRS-CY1JF183J	RES 0603 18KOHM 5% 1/10W SMD	S	AA	AA
R 1419	VRS-CY1JF223J	RES 0603 22KOHM 5% 1/10W SMD	S	AA	AA
R 1420	VRS-CY1JF105J	RES 0603 1MOHM 5% 1/10W SMD	S	AA	AA
R 1421	VRS-CY1JF105J	RES 0603 1MOHM 5% 1/10W SMD	S	AA	AA
R 1422	VRS-CY1JF563J	RES 0603 56KOHM 5% 1/10W SMD	S	AA	AA
R 1423	VRS-CY1JF563J	RES 0603 56KOHM 5% 1/10W SMD	S	AA	AA
R 1424	VRS-CY1JF563J	RES 0603 56KOHM 5% 1/10W SMD	S	AA	AA
R 1425	VRS-CY1JF563J	RES 0603 56KOHM 5% 1/10W SMD	S	AA	AA
R 1426	VRS-CY1JF471J	RES 0603 470 OHM 5% 1/10W SMD	S	AA	AA
R 1427	VRS-CY1JF471J	RES 0603 470 OHM 5% 1/10W SMD	S	AA	AA
R 1428	VRS-CY1JF101J	RES 0603 100 OHM 5% 1/10W SMD	S	AA	AA
R 1429	VRS-CY1JF101J	RES 0603 100 OHM 5% 1/10W SMD	S	AA	AA
R 1430	VRS-CY1JF471J	RES 0603 470 OHM 5% 1/10W SMD	S	AA	AA
R 1431	VRS-CY1JF183J	RES 0603 18KOHM 5% 1/10W SMD	S	AA	AA
R 1432	VRS-CY1JF151J	RES 0603 150 OHM 5% 1/10W SMD	S	AA	AA

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
R 1433	VRS-CY1JF151J	RES 0603 150 OHM 5% 1/10W SMD	S	AA	AA
R 1434	VRS-CY1JF103J	RES 0603 10KOHM 5% 1/10W SMD	S	AA	AA
R 1436	VRS-CY1JF101J	RES 0603 100 OHM 5% 1/10W SMD	S	AA	AA
R 1437	VRS-CY1JF101J	RES 0603 100 OHM 5% 1/10W SMD	S	AA	AA
R 1438	VRS-CY1JF101J	RES 0603 100 OHM 5% 1/10W SMD	S	AA	AA
R 1439	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 1440	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 1441	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 1442	VRS-CY1JF471J	RES 0603 470 OHM 5% 1/10W SMD	S	AA	AA
R 1443	VRS-CY1JF183J	RES 0603 18KOHM 5% 1/10W SMD	S	AA	AA
R 1444	VRS-CY1JF471J	RES 0603 470 OHM 5% 1/10W SMD	S	AA	AA
R 1445	VRS-CY1JF471J	RES 0603 470 OHM 5% 1/10W SMD	S	AA	AA
R 1446	VRS-CY1JF151J	RES 0603 150 OHM 5% 1/10W SMD	S	AA	AA
R 1447	VRS-CY1JF151J	RES 0603 150 OHM 5% 1/10W SMD	S	AA	AA
R 1448	VRS-CY1JF103J	RES 0603 10KOHM 5% 1/10W SMD	S	AA	AA
R 1451	VRS-CY1JF103J	RES 0603 10KOHM 5% 1/10W SMD	S	AA	AA
R 1452	VRS-CJ1JF104J	RES MNR12 100KOHM 5% 1/16W SMD	S	AA	AA
R 1453	VRS-CJ1JF104J	RES MNR12 100KOHM 5% 1/16W SMD	S	AA	AA
R 1454	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 1456	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 1457	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 1458	VRS-CY1JF562J	RES 0603 5,6KOHM 5% 1/10W SMD	S	AA	AA
R 1459	VRS-CY1JF223J	RES 0603 22KOHM 5% 1/10W SMD	S	AA	AA
R 1460	VRS-CY1JF104J	RES 0603 100KOHM 5% 1/10W SMD	S	AA	AA
R 1461	VRS-CY1JF104J	RES 0603 100KOHM 5% 1/10W SMD	S	AA	AA
R 1462	VRS-CY1JF271J	S.CHIP RESIS. 270OHM TAPED	S	AA	AA
R 1463	VRS-CY1JF104J	RES 0603 100KOHM 5% 1/10W SMD	S	AA	AA
R 1464	VRS-CY1JF104J	RES 0603 100KOHM 5% 1/10W SMD	S	AA	AA
R 1465	VRS-CY1JF271J	S.CHIP RESIS. 270OHM TAPED	S	AA	AA
R 1466	VRS-CY1JF472J	RES 0603 4,7KOHM 5% 1/10W SMD	S	AA	AA
R 1467	VRS-CY1JF103J	RES 0603 10KOHM 5% 1/10W SMD	S	AA	AA
R 1479	VRS-CJ1JF104J	RES MNR12 100KOHM 5% 1/16W SMD	S	AA	AA
R 1483	VRS-CY1JF101J	RES 0603 100 OHM 5% 1/10W SMD	S	AA	AA
R 1501	VRS-CY1JF682J	RES 0603 6,8KOHM 5% 1/10W SMD	S	AA	AA
R 1502	VRS-CY1JF682J	RES 0603 6,8KOHM 5% 1/10W SMD	S	AA	AA
R 1601	VRS-CY1JF102J	RES 0603 1KOHM 5% 1/10W SMD	S	AA	AA
R 1801	VRS-CY1JF821J	RES 0603 820 OHM 5% 1/10W SMD	S	AA	AA
R 1802	VRS-CY1JF220J	RES 0603 22 OHM 5% 1/10W SMD	S	AA	AA
R 1803	VRS-CY1JF330J	RES 0603 33 OHM 5% 1/10W SMD	S	AA	AA
R 1804	VRS-CY1JF330J	RES 0603 33 OHM 5% 1/10W SMD	S	AA	AA
R 1805	VRS-CY1JF330J	RES 0603 33 OHM 5% 1/10W SMD	S	AA	AA
R 1806	VRS-CY1JF151J	RES 0603 150 OHM 5% 1/10W SMD	S	AA	AA
R 1807	VRS-CY1JF151J	RES 0603 150 OHM 5% 1/10W SMD	S	AA	AA
R 1808	VRS-CY1JF151J	RES 0603 150 OHM 5% 1/10W SMD	S	AA	AA
R 1809	VRS-CY1JF102J	RES 0603 1KOHM 5% 1/10W SMD	S	AA	AA
R 1810	VRS-CY1JF122J	RES 0603 1,2KOHM 5% 1/10W SMD	S	AA	AA
R 1811	VRS-CY1JF271J	S.CHIP RESIS. 270OHM TAPED	S	AA	AA
R 1812	VRS-CY1JF222J	RES 0603 2,2KOHM 5% 1/10W SMD	S	AA	AA
R 1813	VRS-CY1JF223J	RES 0603 22KOHM 5% 1/10W SMD	S	AA	AA
R 1814	VRS-CY1JF101J	RES 0603 100 OHM 5% 1/10W SMD	S	AA	AA
R 1815	VRS-CY1JF331J	RES 0603 330 OHM 5% 1/10W SMD	S	AA	AA
R 1816	VRS-CY1JF331J	RES 0603 330 OHM 5% 1/10W SMD	S	AA	AA
R 1817	VRS-CY1JF331J	RES 0603 330 OHM 5% 1/10W SMD	S	AA	AA
R 1821	VRS-TQ2BD101J	RES OX 100 OHM 5% 1/8W SMD	S	AA	AA
R 1822	VRS-CY1JF102J	RES 0603 1KOHM 5% 1/10W SMD	S	AA	AA
R 1823	VRS-CB1JF220J	RES 22 OHM 5% 1/16W SMD	S	AA	AA
R 1824	VRS-CB1JF220J	RES 22 OHM 5% 1/16W SMD	S	AA	AA
R 1825	VRS-CY1JF222J	RES 0603 2,2KOHM 5% 1/10W SMD	S	AA	AA
R 1826	VRS-CY1JF103J	RES 0603 10KOHM 5% 1/10W SMD	S	AA	AA
R 1827	VRS-CY1JF102J	RES 0603 1KOHM 5% 1/10W SMD	S	AA	AA
R 1828	VRS-CY1JF221J	RES 0603 220 OHM 5% 1/10W SMD	S	AA	AA
R 1829	VRS-CY1JF221J	RES 0603 220 OHM 5% 1/10W SMD	S	AA	AA
R 1830	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 1831	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 1832	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 1837	VRS-CY1JF220J	RES 0603 22 OHM 5% 1/10W SMD	S	AA	AA
R 1838	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 1839	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 1840	VRS-CY1JF102J	RES 0603 1KOHM 5% 1/10W SMD	S	AA	AA

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
R 1850	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 1851	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 1852	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 2201	VRS-CY1JF332J	RES 0603 3,3KOHM 5% 1/10W SMD	S	AA	AA
R 2202	VRS-CY1JF332J	RES 0603 3,3KOHM 5% 1/10W SMD	S	AA	AA
R 2203	VRS-CY1JF155J	RES 0603 1,5MOHM 5% 1/10W SMD	S	AA	AA
R 2204	VRS-CY1JF332J	RES 0603 3,3KOHM 5% 1/10W SMD	S	AA	AA
R 2210	VRS-CY1JF750J	S CHIP RESISTOR 75 OHM	S	AA	AA
R 2212	VRS-CY1JF750J	S CHIP RESISTOR 75 OHM	S	AA	AA
R 2216	VRS-CB1JF101J	RES 100 OHM 5% 1/16W SMD	S	AA	AA
R 2217	VRS-CB1JF101J	RES 100 OHM 5% 1/16W SMD	S	AA	AA
R 2218	VRS-CJ1JF101J	RES MNR12 100 OHM 5% 1/16W SMD	S	AA	AA
R 2219	VRS-CJ1JF101J	RES MNR12 100 OHM 5% 1/16W SMD	S	AA	AA
R 2220	VRS-CJ1JF101J	RES MNR12 100 OHM 5% 1/16W SMD	S	AA	AA
R 2221	VRS-CH1JF101J	RES MNR14 100 OHM 5% 1/16W SMD	S	AA	AA
R 2222	VRS-CJ1JF101J	RES MNR12 100 OHM 5% 1/16W SMD	S	AA	AA
R 2223	VRS-CH1JF101J	RES MNR14 100 OHM 5% 1/16W SMD	S	AA	AA
R 2224	VRS-CH1JF101J	RES MNR14 100 OHM 5% 1/16W SMD	S	AA	AA
R 2225	VRS-CJ1JF101J	RES MNR12 100 OHM 5% 1/16W SMD	S	AA	AA
R 2226	VRS-CH1JF101J	RES MNR14 100 OHM 5% 1/16W SMD	S	AA	AA
R 2227	VRS-CH1JF680J	RES MNR14 68 OHM 5% 1/16W SMD	S	AA	AA
R 2228	VRS-CJ1JF101J	RES MNR12 100 OHM 5% 1/16W SMD	S	AA	AA
R 2229	VRS-CH1JF101J	RES MNR14 100 OHM 5% 1/16W SMD	S	AA	AA
R 2230	VRS-CH1JF101J	RES MNR14 100 OHM 5% 1/16W SMD	S	AA	AA
R 2231	VRS-CH1JF101J	RES MNR14 100 OHM 5% 1/16W SMD	S	AA	AA
R 2232	VRS-CH1JF101J	RES MNR14 100 OHM 5% 1/16W SMD	S	AA	AA
R 2233	VRS-CH1JF101J	RES MNR14 100 OHM 5% 1/16W SMD	S	AA	AA
R 2242	VRS-CY1JF101J	RES 0603 100 OHM 5% 1/10W SMD	S	AA	AA
R 2243	VRS-CY1JF104J	RES 0603 100KOHM 5% 1/10W SMD	S	AA	AA
R 2253	VRS-CY1JF332J	RES 0603 3,3KOHM 5% 1/10W SMD	S	AA	AA
R 2254	VRS-CY1JF332J	RES 0603 3,3KOHM 5% 1/10W SMD	S	AA	AA
R 2255	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 2256	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 2257	VRS-TQ2BD750J	OX RES 75 OHM 5% 1/8W SMD	S	AA	AA
R 2258	VRS-CY1JF473J	RES 0603 47KOHM 5% 1/10W SMD	S	AA	AA
R 2259	VRS-CY1JF473J	RES 0603 47KOHM 5% 1/10W SMD	S	AA	AA
R 2260	VRS-CY1JF473J	RES 0603 47KOHM 5% 1/10W SMD	S	AA	AA
R 2261	VRS-CY1JF473J	RES 0603 47KOHM 5% 1/10W SMD	S	AA	AA
R 2801	VRS-CY1JF332J	RES 0603 3,3KOHM 5% 1/10W SMD	S	AA	AA
R 2802	VRS-CY1JF332J	RES 0603 3,3KOHM 5% 1/10W SMD	S	AA	AA
R 2803	VRS-CY1JF221J	RES 0603 220 OHM 5% 1/10W SMD	S	AA	AA
R 2804	VRS-CY1JF221J	RES 0603 220 OHM 5% 1/10W SMD	S	AA	AA
R 2805	VRS-CY1JF102F	CHIP RESISTOR 1% 1K	S	AA	AA
R 2806	VRS-CY1JF102F	CHIP RESISTOR 1% 1K	S	AA	AA
R 2807	VRS-CY1JF750J	S CHIP RESISTOR 75 OHM	S	AA	AA
R 2808	VRS-CY1JF750J	S CHIP RESISTOR 75 OHM	S	AA	AA
R 6001	VRN-VV3DB3R3J	MET FILM R 3.3 OHM 5% 2W	S	AA	AA
	MISCELLANEOUS PARTS				
	LHLDWA048WJKZ	WIRE HOLDER	S	AA	AA
	LX-BZ3370CEF7	SCREW	S	AA	AA
	PMLT-A179WJZZ	MOLTPLANE	S	AC	AH
	PMLT-A193WJZZ	MOLTPLANE	S	AA	AD
	PRDARA173WJFW	HEAT SINK	S	AA	AC
	PSLDMA538WJFW	QS-B SHIELD CASE	S	AA	AD
	PSLDMA568WJFW	SHIELD CASE	S	AC	AG
	QEARPA149WJFW	EARTH	S	AA	AC
	VW7UGB0-020AA	VINYL W 20MM	S	AA	AA
F 1001	QFS-LA011WJZZ	FUSE FHC16 252AB-TP	S	AA	AB
F 2203	RBLN-A029WJZZ	BALUNE BLM18BB600SN1D	S	AA	AA
F 2204	RBLN-A029WJZZ	BALUNE BLM18BB600SN1D	S	AA	AA
F 2206	RBLN-A029WJZZ	BALUNE BLM18BB600SN1D	S	AA	AA
F 2207	RBLN-A029WJZZ	BALUNE BLM18BB600SN1D	S	AA	AA
F 2208	RBLN-A029WJZZ	BALUNE BLM18BB600SN1D	S	AA	AA
F 2209	RBLN-A029WJZZ	BALUNE BLM18BB600SN1D	S	AA	AA
FB 1001	RBLN-0065CEZZ	FERRITE BLM41AF800SN1L	S	AA	AA
FB 1301	RBLN-0083GEZZ	BALUNE BLM18DB221SN1D	S	AA	AA
FB 1302	RBLN-0083GEZZ	BALUNE BLM18DB221SN1D	S	AA	AA
FB 1320	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA

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FB 2201	RBLN-0080TAZZ	BALUNE BLM15AG121PN1D	S	AA	AA
FB 2203	RBLN-0080TAZZ	BALUNE BLM15AG121PN1D	S	AA	AA
FB 2205	RBLN-0080TAZZ	BALUNE BLM15AG121PN1D	S	AA	AA
FB 2206	RBLN-A005WJZZ	FERRITE BLM18BB470SN1D	S	AA	AA
FB 2207	RBLN-A005WJZZ	FERRITE BLM18BB470SN1D	S	AA	AA
FB 2210	RBLN-0251TAZZ	FERRITE BLM41PG471SN1L MURATA	S	AA	AB
FB 2211	RBLN-0251TAZZ	FERRITE BLM41PG471SN1L MURATA	S	AA	AB
J 0002	VW7UGB2-020AA	20MM WIRE	S	AA	AA
J 0003	VW7UGB2-020AA	20MM WIRE	S	AA	AA
J 0004	VW7UGB2-020AA	20MM WIRE	S	AA	AA
J 0005	VW7UGB5-070AA	VINYL WIRE 70MM	S	AA	AA
J 0010	VRS-TV1JD000J	RES 2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0011	VRS-TV1JD000J	RES 2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0401	QJAKGA069WJZZ	PIN JACK LPR6520-E720FM	S	AB	AE
J 0402	QJAKJA011WJZZ	STACKED JACK ST-4235-3/5N KYCON	S	AD	AL
J 0403	QSOCDA030WJZZ	SOCKET MDC-294-298 POWER DYNA	S	AC	AG
JF 0001	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 0002	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 0010	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 0011	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 0013	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 0014	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 0017	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 0027	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1001	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1002	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1003	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1004	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1005	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1006	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1007	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1008	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1009	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1010	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1013	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1203	VRS-TQ2BD000J	OX RES 0 OHM 5% 1/8W SMD	S	AA	AA
JF 1301	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1401	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1407	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1408	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1409	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1413	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1414	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1415	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1804	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1805	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1806	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 1807	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 2215	VHDHSU119//-1	DIODE HSU119TRF	S	AA	AB
JF 2230	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 2231	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 2232	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 2233	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 2234	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 2235	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 2247	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 2250	VCCCCY1HH101J	CAPACITOR GRM39CK 101J 50 (1608)SMD	S	AA	AA
JF 2251	VCCCCY1HH101J	CAPACITOR GRM39CK 101J 50 (1608)SMD	S	AA	AA
JF 2253	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 2254	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
JF 6101	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
LUG1701	QLUGHA006WJZZ	METALLIC LUG	S	AA	AB
LUG1702	QLUGHA006WJZZ	METALLIC LUG	S	AA	AB
LUG1703	QLUGHA006WJZZ	METALLIC LUG	S	AA	AB
LUG1704	QLUGHA006WJZZ	METALLIC LUG	S	AA	AB
LUG1705	QLUGZA002WJZZ	SHIELD CLIP SD00919-31	S	AA	AB
LUG1706	QLUGZA002WJZZ	SHIELD CLIP SD00919-31	S	AA	AB
LUG1707	QLUGZA002WJZZ	SHIELD CLIP SD00919-31	S	AA	AB
LUG1708	QLUGHA006WJZZ	METALLIC LUG	S	AA	AB

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LUG1709	QLUGHA006WJZZ	METALLIC LUG	S	AA	AB
LUG1710	QLUGZA002WJZZ	SHIELD CLIP SD00919-31	S	AA	AB
LUG1711	QLUGZA002WJZZ	SHIELD CLIP SD00919-31	S	AA	AB
LUG1712	QLUGZA002WJZZ	SHIELD CLIP SD00919-31	S	AA	AB
LUG1713	QLUGZA002WJZZ	SHIELD CLIP SD00919-31	S	AA	AB
LUG1714	QLUGZA002WJZZ	SHIELD CLIP SD00919-31	S	AA	AB
LUG1715	QLUGHA006WJZZ	METALLIC LUG	S	AA	AB
P 1001	QPLGN0778GEZZ	PLUG 7-PIN (NLA)	S	AA	AA
P 1002	QCNCM2645SC0F	CONNECTOR	S	AA	AA
P 1003	QCNCM0217FCZZ	CONNECTOR B13B-EH-1	S	AA	AB
P 1004	QPLGN0720REZZ	CONNECTOR B07B-ZR JST	S	AA	AB
P 1006	QPLGN0678GEZZ	PLUG 6 VIAS (JST)	S	AA	AA
P 1301	QPLGN0441CEZZ	CONECTOR B4B-EH	S	AA	AA
P 1401	QPLGN0741CEZZ	CONNECTOR B7B-EH	S	AA	AA
P 2201	QPLGN0541CEZZ	PLUG B5B-EH	S	AA	AA
P 2205	QPLGN1041CEZZ	PLUG	S	AA	AB
P 2206	QPLGNA047WJZZ	CONNECTOR B08B-PASK-1	S	AA	AB
SC 1451	QSOCZA056WJZZ	SOCKET CSS5021-2430F	S	AA	AE
SC 1452	QSOCZA056WJZZ	SOCKET CSS5021-2430F	S	AA	AE
SC 2201	QSOCN0491FJZZ	SOCKET FH12-33S-0,5SV	S	AA	AD
SC 2801	QPLGNA353WJZZ	CONNECTOR KEY-15S-2A3A JST	S	AD	AK
SF 1201	RFILCA025WJZZ	SAW FILTER X6874D EPCOS	S	AC	AH
TU 1201	RTUNQA016WJZZ	TUNER UR1316/AIH-3	S	AM	AY
PWB-B		**OPERATION UNIT**			
	DIODES				
D 4050	RH-EX1271CEZZ	ZENER DIODE HZU12B2TRF HITACHI	S	AA	AA
D 4051	RH-EX1271CEZZ	ZENER DIODE HZU12B2TRF HITACHI	S	AA	AA
	RESISTORS				
R 4050	VRS-CY1JF471J	RES 0603 470 OHM 5% 1/10W SMD	S	AA	AA
R 4051	VRS-CY1JF471J	RES 0603 470 OHM 5% 1/10W SMD	S	AA	AA
R 4053	VRS-CY1JF681J	RES 0603 680 OHM 5% 1/10W SMD	S	AA	AA
	MISCELLANEOUS PARTS				
JF 4001	VRS-CY1JF000J	RESISTOR 0 OHM	S	AA	AA
P 4050	QPLGN0480GEZZ	PLUG 4-PIN S04B-PH-K-S	S	AA	AA
S 4057	QSW-P0560CEZZ	SWITCH	S	AB	AF
SW 4051	QSW-K0095CEZZ	SWITCH SKHHNUA010	S	AA	AC
SW 4052	QSW-K0095CEZZ	SWITCH SKHHNUA010	S	AA	AC
SW 4053	QSW-K0095CEZZ	SWITCH SKHHNUA010	S	AA	AC
SW 4054	QSW-K0095CEZZ	SWITCH SKHHNUA010	S	AA	AC
SW 4055	QSW-K0095CEZZ	SWITCH SKHHNUA010	S	AA	AC
PWB-C		**R/C - LED UNIT**			
	INTEGRATED CIRCUITS				
IC 4001	RH-IXB304WJZZ	IC 74HC4094D,653 PHILIPS	S	AA	AD
IC 4002	VHITPS850++-1	IC TPS850	S	AC	AG
IC 4003	VHILM393A//-1	IC LM393APSR	S	AA	AD
	TRANSISTORS				
Q 4001	VSDTA143EKA-1	TRT DTA143EKA-T146	S	AA	AA
Q 4002	VSDTA143EKA-1	TRT DTA143EKA-T146	S	AA	AA
Q 4003	VSDTA143EKA-1	TRT DTA143EKA-T146	S	AA	AA
Q 4004	VSDTA143EKA-1	TRT DTA143EKA-T146	S	AA	AA
	DIODES				
D 4001	RH-PX0421CEZZ	LED DIODO CL-165HR/YG-D-A1 CITIZEN	S	AA	AB
D 4002	RH-PX0419CEZZ	LED DIODE SML-010LTT86-A1	S	AA	AB
D 4003	RH-PX0198TAZZ	LED DIODE PG1111C-430-TR-A	S	AA	AB
D 4005	RH-EX1271CEZZ	ZENER DIODE HZU12B2TRF HITACHI	S	AA	AA
	CAPACITORS				
C 4001	RC-KZ0117TAZZ	CERAM C 4,7UF 6,3V GRM40-034B475K6,3PT	S	AA	AA
C 4002	VCKYCY1HF104Z	CAPACITOR GRM39F 104Z 50 (1608)SMD	S	AA	AA
C 4003	VCEAPF1CW106M	ELEC C 10UF 20% 16V	S	AA	AA
C 4004	VCKYCY1HF104Z	CAPACITOR GRM39F 104Z 50 (1608)SMD	S	AA	AA
C 4005	VCKYCY1AB224K	CAPACITOR GRM39B 224K 10 (1608)SMD	S	AA	AA
	RESISTORS				

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
R 4001	VRS-CY1JF391J	RES 0603 390 OHM 5% 1/10W SMD	S	AA	AA
R 4002	VRS-CY1JF121J	SURFACE MOUNT CHIP RESISTOR 120 OHM	S	AA	AA
R 4003	VRS-CY1JF391J	RES 0603 390 OHM 5% 1/10W SMD	S	AA	AA
R 4006	VRS-CY1JF101J	RES 0603 100 OHM 5% 1/10W SMD	S	AA	AA
R 4007	VRS-CY1JF121J	SURFACE MOUNT CHIP RESISTOR 120 OHM	S	AA	AA
R 4008	VRS-CY1JF102J	RES 0603 1KOHM 5% 1/10W SMD	S	AA	AA
R 4009	VRS-CY1JF223J	RES 0603 22KOHM 5% 1/10W SMD	S	AA	AA
R 4010	VRS-CY1JF472J	RES 0603 4,7KOHM 5% 1/10W SMD	S	AA	AA
R 4011	VRS-CY1JF561J	RES 0603 560 OHM 5% 1/10W SMD	S	AA	AA
R 4012	VRS-CY1JF473J	RES 0603 47KOHM 5% 1/10W SMD	S	AA	AA
R 4014	VRS-CY1JF272J	S. CHIP RES. 2.7K-OHM TAPED	S	AA	AA
R 4015	VRS-CY1JF123J	RES 0603 12KOHM 5% 1/10W SMD	S	AA	AA
R 4016	VRS-CY1JF102J	RES 0603 1KOHM 5% 1/10W SMD	S	AA	AA
R 4017	VRS-CY1JF473J	RES 0603 47KOHM 5% 1/10W SMD	S	AA	AA
R 4018	VRS-CY1JF102J	RES 0603 1KOHM 5% 1/10W SMD	S	AA	AA
	MISCELLANEOUS PARTS				
P 4001	QPLGN0780GEZZ	PLUG 7-PIN (NLA)	S	AA	AA
RMC4001	RRMCUA034WJQZ	R/C RECEIVER GP1UW261RK0F	S	AB	AE
PWB-D		**LCD CONTROL UNIT**			
	INTEGRATED CIRCUITS				
IC2001	VHiBD4742G+-1Y	BD4742G-TR	J	AD	AD
IC2004	RH-iXA870WJZZQ	HD64F3687H	J	AY	AY
IC2006	VHiT7SET32U-1Y	TC7SET32FU	J	AD	AD
IC2008	VHiBR24L08F-1Y	BR24L08F-WE2	J	AE	AE
IC2010	VHiM62392FP-1Y	M62392FP	J	AM	AM
IC2016	VHiLVX125FT-1Y	TC74LVX125FT	J	AG	AG
IC2017	VHiLVX125FT-1Y	TC74LVX125FT	J	AG	AG
IC2019	VHiLVX125FT-1Y	TC74LVX125FT	J	AG	AG
IC4101	RH-iXA706WJZZQ	IR3E12M1	J	AN	AN
IC4102	VHiNJM4580V-1Y	NJM4580V	J	AE	AE
IC4107	VHiLP2951CM-1Y	LP2951CMX	J	AL	AL
IC4108	VHiPQ1CZ41H-1Y	PQ1CZ41H2ZP	J	AG	AG
IC4109	VHiLT1615ES-1Y	LT1615ES5	J	AP	AP
IC4114	VHiLT1617ES-1Y	LT1617ES5	J	AP	AP
IC4116	VHiLTC1872+-1Y	LTC1872ES6	J	AR	AR
IC4501	RH-iXB003WJZZQ	LR38878	J	BB	BB
IC4601	RH-iXB001WJZZQ	LR38879	J	BD	BD
IC4602	RH-iXB272WJZZY	25LC640-I/SN	J		
IC4603	VHiT7WH123U-1Y	TC7WH123FU	J	AD	AD
IC4901	RH-iXB002WJZZQ	KZ4E064311TFP	J	BB	BB
IC4902	RH-iXA986WJZZQ	MS81V2600-12TB	J	BB	BB
IC4903	RH-iXB243WJZZY	25LC320-I/SN (LC-26GA5E)	J	AL	AL
IC4903	RH-iXB242WJZZY	25LC320-I/SN (LC-32GA5E)	J	AL	AL
IC7704	VHiPQ033EZ1-1Y	PQ033EZ01ZP	J	AF	AF
IC7706	VHiPQ033EZ1-1Y	PQ033EZ01ZP	J	AF	AF
IC7708	VHiPQ1L503M-1Y	PQ1L503M2SP	J	AD	AD
IC7709	VHiBD4742G+-1Y	BD4742G-TR	J	AD	AD
IC7711	VHiPQ1CZ21H-1Y	PQ1CZ21H2ZP	J	AH	AH
	TRANSISTORS				
Q2002	VSDTC144EE/-1Y	DTC144EE	J	AA	AA
Q2003	VSDTC144EE/-1Y	DTC144EE	J	AA	AA
Q2004	VSDTC144EE/-1Y	DTC144EE	J	AA	AA
Q2011	VSDTC144EE/-1Y	DTC144EE	J	AA	AA
Q2012	VSDTC144EE/-1Y	DTC144EE	J	AA	AA
Q2013	VS2SK536///-1Y	2SK536	J	AE	AE
Q2014	VS2SK536///-1Y	2SK536	J	AE	AE
Q2015	VSDTC144EE/-1Y	DTC144EE	J	AA	AA
Q2016	VSDTC144EE/-1Y	DTC144EE	J	AA	AA
Q4101	VS2SD1664Q+-1Y	2SD1664Q+	J	AC	AC
Q4103	VS2SA1530AR-1Y	2SA1530AR	J	AB	AB
Q4104	VS2SC3928AR-1Y	2SC3928AR	J	AB	AB
Q4105	VSTP0610T++-1Y	TP0610T++	J	AD	AD
Q4106	VS2SC3928AR-1Y	2SC3928AR	J	AB	AB
Q4108	VS2SK1826++-1Y	2SK1826++	J	AC	AC
Q4109	VS2SK1826++-1Y	2SK1826++	J	AC	AC
Q4110	VSSi4884DY+-1Y	SI4884DY-T1	J	AG	AG

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
Q4112	VS2SB1132Q/-1Y	2SB1132Q	J	AC	AC
Q7701	VSDTC114EE/-1Y	DTC114EE	J	AB	AB
	DIODES				
D2004	VHDMA157A//-1Y	MA157A	J	AC	AC
D2005	VHD1SS355//-1Y	1SS355	J	AB	AB
D4101	VHDHSU119//-1Y	HSU119	J	AB	AB
D4102	VHDLi124+++-1Y	Li124+++	J	AC	AC
D4103	VHDHSU119//-1Y	HSU119	J	AB	AB
D4104	VHDHSU119//-1Y	HSU119	J	AB	AB
D4105	VHDLi114+++-1Y	Li114+++	J	AC	AC
D4106	RH-EX1274CEZZY	Zener Diode, 13V	J	AB	AB
D4107	VHDHSU119//-1Y	HSU119	J	AB	AB
D4108	VHDLi114+++-1Y	Li114+++	J	AC	AC
D4109	VHDLi124+++-1Y	Li124+++	J	AC	AC
D4110	VHDDA221///-1Y	DA221	J	AB	AB
D4501	VHDDAN222//-1Y	DAN222	J	AA	AA
D7705	VHDHSU119//-1Y	HSU119	J	AB	AB
D7707	VHDHSU119//-1Y	HSU119	J	AB	AB
D7712	VHDSC8024//-1Y	SC8024	J	AC	AC
D7713	VHDSC8024//-1Y	SC8024	J	AC	AC
D7714	VHDLi114+++-1Y	Li114+++	J	AC	AC
D7715	VHDDAN222//-1Y	DAN222	J	AA	AA
D7718	VHD1SS355//-1Y	1SS355	J	AB	AB
D7719	VHD1SS355//-1Y	1SS355	J	AB	AB
D7720	VHD1SS355//-1Y	1SS355	J	AB	AB
	PACKAGED CIRCUIT				
X2001	RCRSC0032TAZZY	Crystal, 32.768MHz	J	AG	AG
X4601	RCRUAA048WJZZY	Crystal, 83.565MHz	J		
	FILTERS AND COILS				
FL2001	RFiLZ0169TAZZY	Filter	J	AD	AD
FL4103	RFiLNA002WJZZY	Filter	J	AD	AD
FL4651	RFiLNA002WJZZY	Filter	J	AD	AD
FL4652	RFiLNA002WJZZY	Filter	J	AD	AD
FL4653	RFiLNA002WJZZY	Filter	J	AD	AD
FL4654	RFiLNA002WJZZY	Filter	J	AD	AD
L4101	RCiLP0343TAZZY	Coil 10uH	J	AD	AD
L4102	RCiLCA039WJZZY	Coil 68uH	J	AF	AF
L4103	RCiLP0355TAZZY	Coil 4.7uH	J	AD	AD
L4104	RCiLP0343TAZZY	Coil 10uH	J	AD	AD
L4105	VPD9M4R7J1R4NY	Peaking 4.7uH	J	AB	AB
L4106	RCiLPA001WJZZY	Coil 10uH	J	AF	AF
L4107	VPBWM220K1R2NY	Peaking 22uH	J	AC	AC
L4108	VPBWM220K1R2NY	Peaking 22uH	J	AC	AC
L4109	RCiLP0343TAZZY	Coil 10uH	J	AD	AD
L4110	VPD9M4R7J1R4NY	Peaking 4.7uH	J	AB	AB
L7701	RCiLP0343TAZZY	Coil 10uH	J	AD	AD
L7712	RCiLCA095WJZZY	Coil 470uH	J	AD	AD
L7713	RCiLP0343TAZZY	Coil 10uH	J	AD	AD
	CAPACITORS				
C2001	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C2002	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C2003	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C2004	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C2006	VCCCCY1HH220JY	22p 50V Ceramic	J	AA	AA
C2007	VCCCCY1HH220JY	22p 50V Ceramic	J	AA	AA
C2008	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C2009	VCKYCY1HB102KY	1000p 50V Ceramic	J	AA	AA
C2010	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C2012	VCKYCY1HB102KY	1000p 50V Ceramic	J	AA	AA
C2013	VCKYCY1HB102KY	1000p 50V Ceramic	J	AA	AA
C2014	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C2015	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C2016	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C2017	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C2020	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C2021	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
C2022	VCEASY1CN107MY	100 16V Electrolytic	J	AC	AC
C2023	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C2024	VCCCCY1HH102JY	1000p 50V Ceramic	J	AB	AB
C2025	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C2032	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C2035	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C2036	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4101	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4102	RC-KZA097WJZZY	1 16V Ceramic	J	AD	AD
C4103	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4106	RC-KZ0070TAZZY	4,7 16V Ceramic	J	AD	AD
C4108	RC-KZ0070TAZZY	4,7 16V Ceramic	J	AD	AD
C4109	VCCCCY1HH680JY	68p 50V Ceramic	J	AA	AA
C4110	RC-KZA097WJZZY	1 16V Ceramic	J	AD	AD
C4112	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4114	RC-KZA097WJZZY	1 16V Ceramic	J	AD	AD
C4115	RC-KZA097WJZZY	1 16V Ceramic	J	AD	AD
C4116	RC-KZA047WJZZY	1 50V Ceramic	J	AC	AC
C4117	VCEASY1CN477MY	470 16V Electrolytic	J	AD	AD
C4119	VCAAPF1DJ226MY	22 20V Electrolytic	J	AF	AF
C4120	VCCCCY1HH5R0CY	5p 50V Ceramic	J	AA	AA
C4121	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4124	VCCCCY1HH680JY	68p 50V Ceramic	J	AA	AA
C4125	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4127	RC-KZA097WJZZY	1 16V Ceramic	J	AD	AD
C4129	RC-KZA097WJZZY	1 16V Ceramic	J	AD	AD
C4135	VCKYTV1CB105KY	1 16V Ceramic	J	AC	AC
C4136	VCAAPF1DJ226MY	22 20V Electrolytic	J	AF	AF
C4137	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4138	VCEASY1EN227MY	220 25V Electrolytic	J	AD	AD
C4139	VCKYTV1CB105KY	1 16V Ceramic	J	AC	AC
C4141	RC-KZA097WJZZY	1 16V Ceramic	J	AD	AD
C4142	VCKYCY1HB102KY	1000p 50V Ceramic	J	AA	AA
C4145	RC-KZ0070TAZZY	4,7 16V Ceramic	J	AD	AD
C4146	VCAAPF1CJ396MY	39 16V Electrolytic	J	AF	AF
C4147	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4153	RC-KZA097WJZZY	1 16V Ceramic	J	AD	AD
C4155	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4156	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4159	VCEASY1EN476MY	47 25V Electrolytic	J	AC	AC
C4160	VCEASY1HN106MY	10 50V Electrolytic	J	AC	AC
C4161	RC-KZ0070TAZZY	4,7 16V Ceramic	J	AD	AD
C4162	VCCCCY1HH391JY	390p 50V Ceramic	J	AB	AB
C4163	RC-KZA047WJZZY	1 50V Ceramic	J	AC	AC
C4164	VCKYCY1CF224ZY	0,22 16V Ceramic	J	AB	AB
C4165	VCCCCY1HH101JY	100p 50V Ceramic	J	AA	AA
C4166	VCCCCY1HH221JY	220p 50V Ceramic	J	AA	AA
C4168	RC-KZ0053TAZZY	10 10V Ceramic	J	AD	AD
C4169	VCAAPF1DJ396MY	39 20V Electrolytic	J	AF	AF
C4170	VCCCCY1HH101JY	100p 50V Ceramic	J	AA	AA
C4174	RC-KZ0053TAZZY	10 10V Ceramic	J	AD	AD
C4176	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4177	VCAAPF1DJ226MY	22 20V Electrolytic	J	AF	AF
C4179	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4180	VCEASY1EN227MY	220 25V Electrolytic	J	AD	AD
C4181	RC-KZ0070TAZZY	4,7 16V Ceramic	J	AD	AD
C4192	VCKYCY1HB152KY	1500p 50V Ceramic	J	AA	AA
C4195	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4196	VCEASX1VN226MY	22 35V Electrolytic	J	AC	AC
C4197	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4501	VCEASY0JN476MY	47 6.3V Electrolytic	J	AC	AC
C4502	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4503	VCKYCY1HB102KY	1000p 50V Ceramic	J	AA	AA
C4504	VCEASY0JN476MY	47 6.3V Electrolytic	J	AC	AC
C4505	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4506	VCKYCY1HB102KY	1000p 50V Ceramic	J	AA	AA
C4507	VCEASY0JN476MY	47 6.3V Electrolytic	J	AC	AC
C4508	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4509	VCKYCY1HB102KY	1000p 50V Ceramic	J	AA	AA

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
C4510	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4511	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4512	VCCCCY1HH331JY	330p 50V Ceramic	J	AA	AA
C4513	VCCCCY1HH331JY	330p 50V Ceramic	J	AA	AA
C4514	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4515	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4516	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C4517	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4518	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4519	VCCCCY1HH331JY	330p 50V Ceramic	J	AA	AA
C4520	VCCCCY1HH331JY	330p 50V Ceramic	J	AA	AA
C4521	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4522	VCEASY0JN476MY	47 6.3V Electrolytic	J	AC	AC
C4523	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4524	VCKYCY1HB102KY	1000p 50V Ceramic	J	AA	AA
C4525	VCCCCY1HH331JY	330p 50V Ceramic	J	AA	AA
C4526	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4527	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4528	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C4529	VCCCCY1HH331JY	330p 50V Ceramic	J	AA	AA
C4530	VCCCCY1HH331JY	330p 50V Ceramic	J	AA	AA
C4531	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4532	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4533	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4601	VCEASY0JN476MY	47 6.3V Electrolytic	J	AC	AC
C4602	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4603	VCKYCY1HB102KY	1000p 50V Ceramic	J	AA	AA
C4604	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C4605	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C4606	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C4607	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C4608	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C4609	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C4610	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4611	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C4612	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C4613	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C4614	VCKYCY1HB102KY	1000p 50V Ceramic	J	AA	AA
C4615	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C4616	VCKYCY1HB102KY	1000p 50V Ceramic	J	AA	AA
C4617	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C4618	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C4619	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4620	VCEASY0JN476MY	47 6.3V Electrolytic	J	AC	AC
C4621	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4622	VCEASY0JN476MY	47 6.3V Electrolytic	J	AC	AC
C4623	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4624	VCKYCY1HB102KY	1000p 50V Ceramic	J	AA	AA
C4625	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4626	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C4651	VCAAPF0JJ107MY	100 6.3V Electrolytic	J	AF	AF
C4652	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4653	VCAAPF1DJ226MY	22 20V Electrolytic	J	AF	AF
C4654	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4655	VCAAPF0JJ107MY	100 6.3V Electrolytic	J	AF	AF
C4656	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4657	VCAAPF1DJ226MY	22 20V Electrolytic	J	AF	AF
C4658	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4901	VCEASY0JN476MY	47 6.3V Electrolytic	J	AC	AC
C4902	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4903	VCKYCY1HB102KY	1000p 50V Ceramic	J	AA	AA
C4904	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4905	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4906	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4907	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4908	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4909	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4910	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C4911	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4912	VCCCCY1HH331JY	330p 50V Ceramic	J	AA	AA
C4913	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4914	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C4915	VCCCCY1HH331JY	330p 50V Ceramic	J	AA	AA
C4916	VCKYCY1HB102KY	1000p 50V Ceramic	J	AA	AA
C4917	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4918	VCEASY0JN476MY	47 6.3V Electrolytic	J	AC	AC
C4919	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4920	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4921	VCKYCY1HB102KY	1000p 50V Ceramic	J	AA	AA
C4922	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4923	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4924	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4925	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4926	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4927	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4928	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4929	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4930	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4931	VCEASY0JN476MY	47 6.3V Electrolytic	J	AC	AC
C4932	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4933	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4934	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4935	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4936	VCEASY0JN107MY	100 6.3V Electrolytic	J	AC	AC
C4937	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4938	VCKYCY1HB102KY	1000p 50V Ceramic	J	AA	AA
C4939	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4940	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4941	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4942	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4943	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4944	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C4945	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4946	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4947	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4948	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4949	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C4950	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4951	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4952	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C4953	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C7701	VCEASY1CN107MY	100 16V Electrolytic	J	AC	AC
C7702	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C7703	VCEASX1CN226MY	22 16V Electrolytic	J	AC	AC
C7704	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C7707	VCEASY1CN226MY	22 16V Electrolytic	J	AC	AC
C7709	VCEASY1CN226MY	22 16V Electrolytic	J	AC	AC
C7713	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C7715	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C7723	VCEASY0JN476MY	47 6.3V Electrolytic	J	AC	AC
C7724	VCEASY0JN476MY	47 6.3V Electrolytic	J	AC	AC
C7725	VCKYCY1HB103KY	0,01 50V Ceramic	J	AA	AA
C7728	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C7729	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C7733	VCEASY1EN107MY	100 25V Electrolytic	J	AC	AC
C7734	VCCCCY1HH681JY	680p 50V Ceramic	J	AB	AB
C7735	VCEASY1CN477MY	470 16V Electrolytic	J	AD	AD
C7736	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
C7737	VCKYCY1EF104ZY	0,1 25V Ceramic	J	AA	AA
	RESISTORS				
R2001	VRS-CY1JF104JY	100k 1/16W Metal Oxide	J	AA	AA
R2002	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R2003	VRS-CY1JF223JY	22k 1/16W Metal Oxide	J	AA	AA
R2004	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R2005	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2006	VRS-CJ1JF333JY	33k 1/16W Metal Oxide	J	AA	AA
R2007	VRS-CY1JF222FY	2.2k 1/16W Metal Oxide	J	AA	AA

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
R2008	VRS-CY1JF223JY	22k 1/16W Metal Oxide	J	AA	AA
R2009	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2010	VRS-CY1JF223JY	22k 1/16W Metal Oxide	J	AA	AA
R2011	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R2013	VRS-CY1JF393JY	39k 1/16W Metal Oxide	J	AA	AA
R2014	VRS-CY1JF223JY	22k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R2015	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R2016	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R2016	VRS-CY1JF223JY	22k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R2017	VRS-CY1JF394JY	390k 1/16W Metal Oxide	J	AA	AA
R2018	VRS-CY1JF106JY	10M 1/16W Metal Oxide	J	AA	AA
R2019	VRS-CY1JF105JY	1M 1/16W Metal Oxide	J	AA	AA
R2020	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2021	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2022	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2023	VRS-CY1JF104JY	100k 1/16W Metal Oxide	J	AA	AA
R2024	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R2025	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R2026	VRS-CY1JF223JY	22k 1/16W Metal Oxide	J	AA	AA
R2027	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R2028	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R2030	VRS-CY1JF473JY	47k 1/16W Metal Oxide	J	AA	AA
R2031	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2033	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R2034	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R2035	VRS-CY1JF472JY	4.7k 1/16W Metal Oxide	J	AA	AA
R2036	VRS-CY1JF223JY	22k 1/16W Metal Oxide	J	AA	AA
R2037	VRS-CY1JF223JY	22k 1/16W Metal Oxide	J	AA	AA
R2038	VRS-CY1JF333JY	33k 1/16W Metal Oxide	J	AA	AA
R2040	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R2041	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2042	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2044	VRS-CY1JF472JY	4.7k 1/16W Metal Oxide	J	AA	AA
R2045	VRS-CY1JF472JY	4.7k 1/16W Metal Oxide	J	AA	AA
R2046	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R2048	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2049	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2050	VRS-CY1JF683JY	68k 1/16W Metal Oxide	J	AA	AA
R2052	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2053	VRS-CY1JF223JY	22k 1/16W Metal Oxide	J	AA	AA
R2054	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2056	VRS-CJ1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2058	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R2059	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R2060	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R2061	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2063	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2064	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2065	VRS-CJ1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2066	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R2067	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2068	VRS-CY1JF104JY	100k 1/16W Metal Oxide	J	AA	AA
R2069	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R2070	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R2071	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R2072	VRS-CY1JF223JY	22k 1/16W Metal Oxide	J	AA	AA
R2073	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R2074	VRS-CY1JF473JY	47k 1/16W Metal Oxide	J	AA	AA
R2075	VRS-CY1JF222JY	2.2k 1/16W Metal Oxide	J	AA	AA
R2076	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R2077	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2078	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2079	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2081	VRS-CY1JF223JY	22k 1/16W Metal Oxide	J	AA	AA
R2088	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2089	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
R2092	VRS-CY1JF223JY	22k 1/16W Metal Oxide	J	AA	AA
R2093	VRS-CY1JF332JY	3.3k 1/16W Metal Oxide	J	AA	AA
R2607	VRS-CY1JF220JY	22 1/16W Metal Oxide	J	AA	AA
R2608	VRS-CY1JF220JY	22 1/16W Metal Oxide	J	AA	AA
R2609	VRS-CY1JF104JY	100k 1/16W Metal Oxide	J	AA	AA
R2610	VRS-CY1JF104JY	100k 1/16W Metal Oxide	J	AA	AA
R2611	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2612	VRS-CY1JF822FY	8.2k 1/16W Metal Oxide	J	AA	AA
R2616	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R2618	VRS-CY1JF220JY	22 1/16W Metal Oxide	J	AA	AA
R2620	VRS-CY1JF104JY	100k 1/16W Metal Oxide	J	AA	AA
R2625	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2629	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R2630	VRS-CY1JF472JY	4.7k 1/16W Metal Oxide	J	AA	AA
R2631	VRS-CY1JF472JY	4.7k 1/16W Metal Oxide	J	AA	AA
R2633	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2634	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R2636	VRS-CY1JF102JY	1k 1/16W Metal Oxide	J	AA	AA
R2639	VRS-CY1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R2640	VRS-CY1JF472JY	4.7k 1/16W Metal Oxide	J	AA	AA
R2641	VRS-CY1JF472JY	4.7k 1/16W Metal Oxide	J	AA	AA
R2646	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R2647	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R4101	VRS-CY1JF102FY	1k 1/16W Metal Oxide	J	AA	AA
R4102	VRS-CY1JF123FY	12k 1/16W Metal Oxide	J	AA	AA
R4103	VRS-CY1JF472FY	4.7k 1/16W Metal Oxide	J	AA	AA
R4109	VRS-CY1JF562FY	5.6k 1/16W Metal Oxide	J	AA	AA
R4112	VRS-CY1JF153FY	15k 1/16W Metal Oxide	J	AA	AA
R4113	VRS-CY1JF330JY	33 1/16W Metal Oxide	J	AA	AA
R4114	VRS-CY1JF563FY	56k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4114	VRS-CY1JF623FY	62k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4115	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R4118	VRS-CY1JF153FY	15k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4118	VRS-CY1JF163FY	16k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4119	VRS-CY1JF362FY	3.6k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4119	VRS-CY1JF472FY	4.7k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4120	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R4121	VRS-CY1JF332FY	3.3k 1/16W Metal Oxide	J	AA	AA
R4122	VRS-CY1JF682FY	6.8k 1/16W Metal Oxide	J	AA	AA
R4123	VRS-CY1JF332FY	3.3k 1/16W Metal Oxide	J	AA	AA
R4124	VRS-CY1JF392FY	3.9k 1/16W Metal Oxide	J	AA	AA
R4125	VRS-CY1JF332FY	3.3k 1/16W Metal Oxide	J	AA	AA
R4126	VRS-CY1JF682FY	6.8k 1/16W Metal Oxide	J	AA	AA
R4130	VRS-CH1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4132	VRS-CY1JF513FY	51k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4132	VRS-CY1JF913FY	91k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4133	VRS-CY1JF183FY	18k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4133	VRS-CY1JF333FY	33k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4134	VRS-CY1JF221FY	220 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4134	VRS-CY1JF681FY	680 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4135	VRS-CY1JF103FY	10k 1/16W Metal Oxide	J	AA	AA
R4136	VRS-CY1JF393FY	39k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4136	VRS-CY1JF563FY	56k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4137	VRS-CY1JF163FY	16k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
R4137	VRS-CY1JF223FY	22k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4138	VRS-CY1JF122FY	1.2k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4138	VRS-CY1JF160FY	16 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4139	VRS-CH1JF330JY	33 1/16W Metal Oxide	J	AA	AA
R4140	VRS-CY1JF393FY	39k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4140	VRS-CY1JF623FY	62k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4141	VRS-CY1JF183FY	18k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4141	VRS-CY1JF273FY	27k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4142	VRS-CY1JF101FY	100 1/16W Metal Oxide	J	AD	AD
		(LC-32GA5E)			
R4142	VRS-CY1JF152FY	1.5k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4143	VRS-CY1JF333FY	33k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4143	VRS-CY1JF563FY	56k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4144	VRS-CY1JF163FY	16k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4144	VRS-CY1JF273FY	27k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4145	VRS-CY1JF122FY	1.2k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4145	VRS-CY1JF431FY	430 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4146	VRS-CH1JF330JY	33 1/16W Metal Oxide	J	AA	AA
R4147	VRS-CH1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4148	VRS-CY1JF433FY	43k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4148	VRS-CY1JF473FY	47k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4149	VRS-CY1JF243FY	24k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4149	VRS-CY1JF273FY	27k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4150	VRS-CY1JF391FY	390 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4150	VRS-CY1JF681FY	680 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4152	VRS-CY1JF163FY	16k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4152	VRS-CY1JF333FY	33k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4153	VRS-CY1JF153FY	15k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4153	VRS-CY1JF333FY	33k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4154	VRS-CY1JF122FY	1.2k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4154	VRS-CY1JF431FY	430 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4155	VRS-CY1JF330FY	33 1/16W Metal Oxide	J	AA	AA
R4156	VRS-CY1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4157	VRS-CY1JF163FY	16k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4157	VRS-CY1JF273FY	27k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4158	VRS-CY1JF183FY	18k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4158	VRS-CY1JF333FY	33k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4159	VRS-CY1JF471FY	470 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
R4159	VRS-CY1JF681FY	680 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4160	VRS-CY1JF330FY	33 1/16W Metal Oxide	J	AA	AA
R4161	VRS-CY1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4162	VRS-CY1JF243FY	24k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4162	VRS-CY1JF273FY	27k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4163	VRS-CY1JF513FY	51k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4163	VRS-CY1JF563FY	56k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4164	VRS-CY1JF390FY	39 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4164	VRS-CY1JF621FY	620 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4165	VRS-CH1JF330JY	33 1/16W Metal Oxide	J	AA	AA
R4166	VRS-CH1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4167	VRS-CY1JF123FY	12k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4167	VRS-CY1JF243FY	24k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4168	VRS-CY1JF273FY	27k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4168	VRS-CY1JF563FY	56k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4169	VRS-CY1JF391FY	390 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4169	VRS-CY1JF681FY	680 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4170	VRS-CY1JF153FY	15k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4170	VRS-CY1JF223FY	22k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4171	VRS-CY1JF393FY	39k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4171	VRS-CY1JF563FY	56k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4172	VRS-CY1JF111FY	110 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4172	VRS-CY1JF821FY	820 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4174	VRS-CY1JF103FY	10k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4174	VRS-CY1JF223FY	22k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4175	VRS-CY1JF273FY	27k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4175	VRS-CY1JF623FY	62k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4176	VRS-CY1JF101FY	100 1/16W Metal Oxide	J	AD	AD
		(LC-26GA5E)			
R4176	VRS-CY1JF361FY	360 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4177	VRS-CH1JF330JY	33 1/16W Metal Oxide	J	AA	AA
R4178	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R4179	VRS-CY1JF513FY	51k 1/16W Metal Oxide	J	AA	AA
R4180	VRS-CY1JF332FY	3.3k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4180	VRS-CY1JF392FY	3.9k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4181	VRS-CY1JF682FY	6.8k 1/16W Metal Oxide	J	AA	AA
R4182	VRS-CY1JF103FY	10k 1/16W Metal Oxide	J	AA	AA
R4183	VRS-CY1JF153FY	15k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4183	VRS-CY1JF183FY	18k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4184	VRS-CY1JF133FY	13k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
R4184	VRS-CY1JF223FY	22k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4186	VRS-CH1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4187	VRS-CY1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4188	VRS-CY1JF102FY	1k 1/16W Metal Oxide	J	AA	AA
R4190	VRS-CY1JF473FY	47k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4190	VRS-CY1JF563FY	56k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4191	VRS-CY1JF473FY	47k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4191	VRS-CY1JF823FY	82k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4192	VRS-CY1JF563FY	56k 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4192	VRS-CY1JF623FY	62k 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4193	VRS-CY1JF102JY	1k 1/16W Metal Oxide	J	AA	AA
R4194	VRS-CY1JF121JY	120 1/16W Metal Oxide	J	AA	AA
R4196	VRS-CY1JF750FY	75 1/16W Metal Oxide	J	AA	AA
R4198	VRS-CY1JF562FY	5.6k 1/16W Metal Oxide	J	AA	AA
R4199	VRS-CY1JF104JY	100k 1/16W Metal Oxide	J	AA	AA
R4200	VRS-CY1JF121FY	120 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4200	VRS-CY1JF821FY	820 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4201	VRS-CY1JF621FY	620 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4201	VRS-CY1JF821FY	820 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4202	VRS-CY1JF151FY	150 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4202	VRS-CY1JF821FY	820 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4203	VRS-CY1JF121FY	120 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4203	VRS-CY1JF271FY	270 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4204	VRS-CY1JF682FY	6.8k 1/16W Metal Oxide	J	AA	AA
R4205	VRS-CY1JF681FY	680 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4205	VRS-CY1JF820FY	82 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4206	VRS-TV1JD102JY	1k 1/16W Metal Oxide	J	AA	AA
R4208	VRS-CH1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4209	VRS-TW2ED221JY	220 1/4W Metal Oxide	J	AB	AB
R4210	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R4211	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R4213	VRS-TW2ED221JY	220 1/4W Metal Oxide	J	AB	AB
R4216	VRS-CY1JF105FY	1M 1/16W Metal Oxide	J	AA	AA
R4217	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R4218	VRS-CY1JF393FY	39k 1/16W Metal Oxide	J	AA	AA
R4219	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R4220	VRS-CY1JF105FY	1M 1/16W Metal Oxide	J	AA	AA
R4221	VRS-TW2ED153JY	15k 1/4W Metal Oxide	J	AA	AA
R4222	VRS-TW2ED562JY	5.6k 1/4W Metal Oxide	J	AB	AB
R4223	RR-NZ0027TAZZY	0,056 1/4W	J	AC	AC
R4224	VRS-TV1JD222JY	2.2k 1/16W Metal Oxide	J	AA	AA
R4225	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R4226	VRS-TV1JD222JY	2.2k 1/16W Metal Oxide	J	AA	AA
R4227	VRS-TW2ED821JY	820 1/4W Metal Oxide	J	AB	AB
R4228	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R4229	VRS-CY1JF105FY	1M 1/16W Metal Oxide	J	AA	AA
R4230	VRS-CY1JF202FY	2k 1/16W Metal Oxide	J	AA	AA
R4231	VRS-CY1JF513FY	51k 1/16W Metal Oxide	J	AA	AA
R4233	VRS-CY1JF393FY	39k 1/16W Metal Oxide	J	AA	AA
R4234	VRS-CY1JF154FY	150k 1/16W Metal Oxide	J	AA	AA
R4235	VRS-CY1JF104JY	100k 1/16W Metal Oxide	J	AA	AA
R4238	VRS-CY1JF105JY	1M 1/16W Metal Oxide	J	AA	AA

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
R4239	VRS-TW2ED682JY	6.8k 1/4W Metal Oxide	J	AA	AA
R4244	VRS-TW2ED562JY	5.6k 1/4W Metal Oxide	J	AB	AB
R4250	VRS-CY1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4256	VRS-CY1JF104JY	100k 1/16W Metal Oxide	J	AA	AA
R4260	VRS-CY1JF332FY	3.3k 1/16W Metal Oxide	J	AA	AA
R4261	VRS-TW2ED101JY	100 1/4W Metal Oxide	J	AA	AA
R4262	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R4263	VRS-CY1JF330JY	33 1/16W Metal Oxide	J	AA	AA
R4264	VRS-TW2ED101JY	100 1/4W Metal Oxide	J	AA	AA
R4270	VRS-CY1JF104JY	100k 1/16W Metal Oxide	J	AA	AA
R4271	VRS-CY1JF911FY	910 1/16W Metal Oxide	J	AA	AA
R4272	VRS-CY1JF243FY	24k 1/16W Metal Oxide	J	AA	AA
R4273	VRS-CY1JF513JY	51k 1/16W Metal Oxide	J	AA	AA
R4275	VRS-CY1JF562FY	5.6k 1/16W Metal Oxide	J	AA	AA
R4279	VRS-CY1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4280	VRS-CY1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4281	VRS-CY1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4282	VRS-CH1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4286	VRS-CJ1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4288	VRS-CH1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4501	VRS-CY1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4502	VRS-CH1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4505	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R4506	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R4507	VRS-CJ1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R4508	VRS-CY1JF330JY	33 1/16W Metal Oxide	J	AA	AA
R4509	VRS-CY1JF101FY	100 1/16W Metal Oxide	J	AD	AD
R4510	VRS-CY1JF101FY	100 1/16W Metal Oxide	J	AD	AD
R4511	VRS-CY1JF101FY	100 1/16W Metal Oxide	J	AD	AD
R4512	VRS-CY1JF101FY	100 1/16W Metal Oxide	J	AD	AD
R4513	VRS-CY1JF101FY	100 1/16W Metal Oxide	J	AD	AD
R4514	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R4516	VRS-CY1JF133FY	13k 1/16W Metal Oxide	J	AA	AA
R4518	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R4519	VRS-CH1JF330JY	33 1/16W Metal Oxide	J	AA	AA
R4520	VRS-CJ1JF330JY	33 1/16W Metal Oxide	J	AA	AA
R4521	VRS-CJ1JF330JY	33 1/16W Metal Oxide	J	AA	AA
R4522	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R4523	VRS-CH1JF330JY	33 1/16W Metal Oxide	J	AA	AA
R4524	VRS-CJ1JF330JY	33 1/16W Metal Oxide	J	AA	AA
R4525	VRS-CY1JF330JY	33 1/16W Metal Oxide	J	AA	AA
R4526	VRS-CY1JF330JY	33 1/16W Metal Oxide	J	AA	AA
R4527	VRS-CY1JF330JY	33 1/16W Metal Oxide	J	AA	AA
R4528	VRS-CY1JF330JY	33 1/16W Metal Oxide	J	AA	AA
R4529	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R4601	VRS-CY1JF101FY	100 1/16W Metal Oxide	J	AD	AD
R4602	VRS-CY1JF101FY	100 1/16W Metal Oxide	J	AD	AD
R4603	VRS-CY1JF101FY	100 1/16W Metal Oxide	J	AD	AD
R4604	VRS-CY1JF101FY	100 1/16W Metal Oxide	J	AD	AD
R4605	VRS-CY1JF101FY	100 1/16W Metal Oxide	J	AD	AD
R4606	VRS-CY1JF101FY	100 1/16W Metal Oxide	J	AD	AD
R4607	VRS-CY1JF101FY	100 1/16W Metal Oxide	J	AD	AD
R4608	VRS-CY1JF101FY	100 1/16W Metal Oxide	J	AD	AD
R4609	VRS-CY1JF101FY	100 1/16W Metal Oxide	J	AD	AD
R4610	VRS-CY1JF101FY	100 1/16W Metal Oxide	J	AD	AD
R4611	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R4613	VRS-CY1JF473JY	47k 1/16W Metal Oxide	J	AA	AA
R4614	VRS-CJ1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4615	VRS-CH1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4616	VRS-CH1JF680JY	68 1/16W Metal Oxide	J	AA	AA
R4617	VRS-CH1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4618	VRS-CY1JF473JY	47k 1/16W Metal Oxide	J	AA	AA
R4619	VRS-CH1JF680JY	68 1/16W Metal Oxide	J	AA	AA
R4620	VRS-CY1JF270JY	27 1/16W Metal Oxide	J	AA	AA
R4621	VRS-CY1JF270JY	27 1/16W Metal Oxide	J	AA	AA
R4622	VRS-CH1JF680JY	68 1/16W Metal Oxide	J	AA	AA
R4623	VRS-CH1JF680JY	68 1/16W Metal Oxide	J	AA	AA
R4624	VRS-CH1JF680JY	68 1/16W Metal Oxide	J	AA	AA
R4625	VRS-CH1JF680JY	68 1/16W Metal Oxide	J	AA	AA

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
R4626	VRS-CH1JF680JY	68 1/16W Metal Oxide	J	AA	AA
R4627	VRS-CH1JF680JY	68 1/16W Metal Oxide	J	AA	AA
R4628	VRS-CY1JF223JY	22k 1/16W Metal Oxide	J	AA	AA
R4629	VRS-CY1JF472JY	4.7k 1/16W Metal Oxide	J	AA	AA
R4630	VRS-CY1JF472JY	4.7k 1/16W Metal Oxide	J	AA	AA
R4631	VRS-CY1JF472JY	4.7k 1/16W Metal Oxide	J	AA	AA
R4632	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R4637	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R4639	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R4640	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R4642	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R4651	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R4652	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R4653	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R4654	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R4655	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R4656	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R4901	VRS-CH1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4902	VRS-CH1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4903	VRS-CY1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4904	VRS-CH1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4905	VRS-CY1JF100JY	10 1/16W Metal Oxide	J	AA	AA
R4906	VRS-CH1JF470JY	47 1/16W Metal Oxide	J	AA	AA
R4907	VRS-CH1JF470JY	47 1/16W Metal Oxide	J	AA	AA
R4908	VRS-CH1JF470JY	47 1/16W Metal Oxide	J	AA	AA
R4909	VRS-CH1JF470JY	47 1/16W Metal Oxide	J	AA	AA
R4910	VRS-CH1JF470JY	47 1/16W Metal Oxide	J	AA	AA
R4911	VRS-CH1JF470JY	47 1/16W Metal Oxide	J	AA	AA
R4912	VRS-CH1JF101JY	100 1/16W Metal Oxide	J	AA	AA
		(LC-26GA5E)			
R4912	VRS-CH1JF470JY	47 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4913	RBLN-A005WJZZY	Ferrite Bead(LC-26GA5E)	J		
R4913	VRS-CY1JF100JY	10 1/16W Metal Oxide	J	AA	AA
		(LC-32GA5E)			
R4914	VRS-CJ1JF470JY	47 1/16W Metal Oxide	J	AA	AA
R4915	VRS-CJ1JF470JY	47 1/16W Metal Oxide	J	AA	AA
R4916	VRS-CH1JF470JY	47 1/16W Metal Oxide	J	AA	AA
R4917	VRS-CH1JF470JY	47 1/16W Metal Oxide	J	AA	AA
R4918	VRS-CH1JF470JY	47 1/16W Metal Oxide	J	AA	AA
R4919	VRS-CH1JF470JY	47 1/16W Metal Oxide	J	AA	AA
R4920	VRS-CH1JF470JY	47 1/16W Metal Oxide	J	AA	AA
R4922	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R4923	VRS-CY1JF000JY	0 1/16W Metal Oxide	J	AA	AA
R4924	VRS-CY1JF472JY	4.7k 1/16W Metal Oxide	J	AA	AA
R7711	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R7714	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R7721	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R7723	VRS-TV1JD000JY	0 1/16W Metal Oxide	J	AA	AA
R7725	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R7729	VRS-TV1JD000JY	0 1/16W Metal Oxide	J	AA	AA
R7730	VRS-TV1JD000JY	0 1/16W Metal Oxide	J	AA	AA
R7731	VRS-TV1JD000JY	0 1/16W Metal Oxide	J	AA	AA
R7732	VRS-TV1JD000JY	0 1/16W Metal Oxide	J	AA	AA
R7733	VRS-CY1JF362FY	3.6k 1/16W Metal Oxide	J	AA	AA
R7734	VRS-CY1JF222FY	2.2k 1/16W Metal Oxide	J	AA	AA
R7735	VRS-CY1JF223JY	22k 1/16W Metal Oxide	J	AA	AA
R7744	VRS-CY1JF332FY	3.3k 1/16W Metal Oxide	J	AA	AA
R7745	VRS-CY1JF102FY	1k 1/16W Metal Oxide	J	AA	AA
R7746	VRS-CY1JF332FY	3.3k 1/16W Metal Oxide	J	AA	AA
R7747	VRS-TW2ED330JY	33 1/4W Metal Oxide	J	AA	AA
R7748	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R7749	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R7750	VRS-TV1JD000JY	0 1/16W Metal Oxide	J	AA	AA
R7751	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R7752	VRS-CY1JF101JY	100 1/16W Metal Oxide	J	AA	AA
R7755	VRS-TV1JD000JY	0 1/16W Metal Oxide	J	AA	AA
R7756	VRS-TV1JD000JY	0 1/16W Metal Oxide	J	AA	AA
R7759	VRS-TV1JD000JY	0 1/16W Metal Oxide	J	AA	AA
R7760	VRS-TW2ED221JY	220 1/4W Metal Oxide	J	AB	AB
R7761	VRS-TW2ED221JY	220 1/4W Metal Oxide	J	AB	AB
R7762	VRS-TW2ED221JY	220 1/4W Metal Oxide	J	AB	AB
R7763	VRS-TW2ED221JY	220 1/4W Metal Oxide	J	AB	AB
R7770	VRS-CY1JF103JY	10k 1/16W Metal Oxide	J	AA	AA
R7771	VRS-CY1JF473JY	47k 1/16W Metal Oxide	J	AA	AA
	MISCELLANEOUS PARTS				
FB2001	RBLN-0006TAZZY	Ferrite Bead	J	AB	AB
FB4101	RBLN-0252TAZZY	Ferrite Bead	J	AA	AA
FB4102	RBLN-0252TAZZY	Ferrite Bead	J	AA	AA
FB4501	RBLN-0210TAZZY	Ferrite Bead	J	AB	AB
FB4502	RBLN-0210TAZZY	Ferrite Bead	J	AB	AB
FB4503	RBLN-0210TAZZY	Ferrite Bead	J	AB	AB
FB4504	RBLN-0210TAZZY	Ferrite Bead	J	AB	AB
FB4505	RBLN-0210TAZZY	Ferrite Bead	J	AB	AB
FB4601	RBLN-0210TAZZY	Ferrite Bead	J	AB	AB
FB4602	RBLN-A005WJZZY	Ferrite Bead	J	AA	AA
FB4603	RBLN-0210TAZZY	Ferrite Bead	J	AB	AB
FB4604	RBLN-0210TAZZY	Ferrite Bead	J	AB	AB
FB4605	RBLN-0210TAZZY	Ferrite Bead	J	AB	AB
FB4901	RBLN-0210TAZZY	Ferrite Bead	J	AB	AB
FB4902	RBLN-0210TAZZY	Ferrite Bead	J	AB	AB
FB4903	RBLN-0210TAZZY	Ferrite Bead	J	AB	AB
FB4904	RBLN-0210TAZZY	Ferrite Bead	J	AB	AB
FB7709	RBLN-A005WJZZY	Ferrite Bead	J	AA	AA
FB7710	RBLN-0210TAZZY	Ferrite Bead	J	AB	AB
FB7712	RBLN-A005WJZZY	Ferrite Bead	J	AA	AA
FB7713	RBLN-A005WJZZY	Ferrite Bead	J	AA	AA
FB7716	RBLN-A005WJZZY	Ferrite Bead	J	AA	AA
FB7717	RBLN-A005WJZZY	Ferrite Bead	J	AA	AA
FB7718	RBLN-A005WJZZY	Ferrite Bead	J	AA	AA
FB7719	RBLN-A005WJZZY	Ferrite Bead	J	AA	AA
FB7720	RBLN-0252TAZZY	Ferrite Bead	J	AA	AA
P2001	QPLGN0544FJZZY	Plug, 7Pin(AD)	J	AD	AD
P2005	QPLGNA144WJZZY	Plug, 20Pin	J	AF	AF
P2006	QPLGNA178WJZZY	Plug, 9Pin(SH)	J	AE	AE
P7704	QPLGNA177WJZZY	Plug, 8Pin(GV)	J	AE	AE
P7705	QPLGNA181WJZZY	Plug, 12Pin(BL)	J	AF	AF
P7707	QPLGNA177WJZZY	Plug, 8Pin(PO)	J	AE	AE
SC4601	QSOCN0491FJZZY	Socket, 33Pin(LV)	J	AF	AF
SC4651	QSOCNA222WJZZY	Socket, 80Pin	J	AH	AH
SC4652	QSOCNA222WJZZY	Socket, 80Pin	J	AH	AH
PWB-E		**YUB (COMPONENTS) UNIT**			
	TRANSISTORS				
Q 1901	VS2SC3928AR-1	TRT 2SC3928AR-T12-1R MITSUBISHI	S	AA	AA
Q 1902	VS2SA1530AR-1	TRT SA1530A-T12-1R MITSUBISHI	S	AA	AA
Q 1903	VS2SC3928AR-1	TRT 2SC3928AR-T12-1R MITSUBISHI	S	AA	AA
Q 1904	VS2SA1530AR-1	TRT SA1530A-T12-1R MITSUBISHI	S	AA	AA
Q 1905	VS2SC3928AR-1	TRT 2SC3928AR-T12-1R MITSUBISHI	S	AA	AA
Q 1906	VS2SA1530AR-1	TRT SA1530A-T12-1R MITSUBISHI	S	AA	AA
	DIODES				
D 1901	RH-EX1264CEZZ	ZENER DIODE HZU10B1TRF HITACHI	S	AA	AA
D 1902	RH-EX1264CEZZ	ZENER DIODE HZU10B1TRF HITACHI	S	AA	AA
D 1903	RH-EX1264CEZZ	ZENER DIODE HZU10B1TRF HITACHI	S	AA	AA
	CAPACITORS				
C 1901	VCKYCY1HB102K	CAPACITOR GRM39B 102K 50 (1608)SMD	S	AA	AA
C 1902	VCKYCY1HB102K	CAPACITOR GRM39B 102K 50 (1608)SMD	S	AA	AA
C 1903	VCKYCY1HB102K	CAPACITOR GRM39B 102K 50 (1608)SMD	S	AA	AA
C 1904	VCKYCY1HB102K	CAPACITOR GRM39B 102K 50 (1608)SMD	S	AA	AA
C 1905	VCKYCY1AF105Z	CAPACITOR GRM39F 105Z 10 (1608)SMD	S	AA	AA
C 1906	VCKYCY1AF105Z	CAPACITOR GRM39F 105Z 10 (1608)SMD	S	AA	AA
C 1907	VCKYCY1AF105Z	CAPACITOR GRM39F 105Z 10 (1608)SMD	S	AA	AA
C 1908	VCEAPF1CW107M	ELEC C 100UF 20% 16V	S	AA	AA
	RESISTORS				
R 1901	VRS-CY1JF221J	RES 0603 220 OHM 5% 1/10W SMD	S	AA	AA

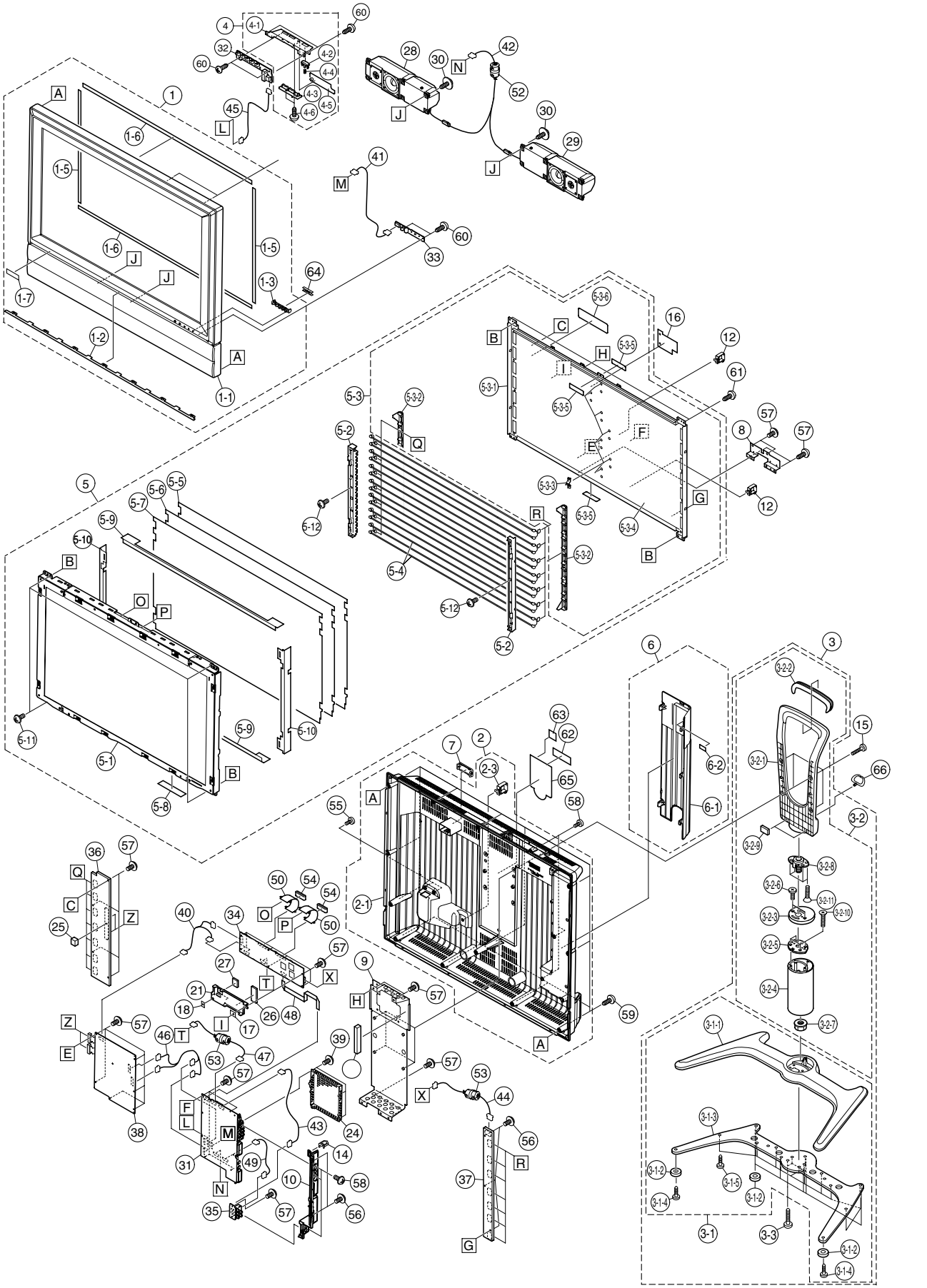
	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	R 1902	VRS-CY1JF221J	RES 0603 220 OHM 5% 1/10W SMD	S	AA	AA
	R 1903	VRS-TQ2BD100J	OX RES 10 OHM 5% 1/8W SMD	S	AA	AA
	R 1904	VRS-CY1JF220J	RES 0603 22 OHM 5% 1/10W SMD	S	AA	AA
	R 1905	VRS-CY1JF104J	RES 0603 100KOHM 5% 1/10W SMD	S	AA	AA
	R 1906	VRS-CY1JF151J	RES 0603 150 OHM 5% 1/10W SMD	S	AA	AA
	R 1907	VRS-CY1JF274J	RES 0603 270KOHM 5% 1/10W SMD	S	AA	AA
	R 1908	VRS-CY1JF471J	RES 0603 470 OHM 5% 1/10W SMD	S	AA	AA
	R 1909	VRS-CY1JF151J	RES 0603 150 OHM 5% 1/10W SMD	S	AA	AA
	R 1910	VRS-CY1JF750J	S CHIP RESISTOR 75 OHM	S	AA	AA
	R 1911	VRS-CY1JF220J	RES 0603 22 OHM 5% 1/10W SMD	S	AA	AA
	R 1912	VRS-CY1JF104J	RES 0603 100KOHM 5% 1/10W SMD	S	AA	AA
	R 1913	VRS-CY1JF151J	RES 0603 150 OHM 5% 1/10W SMD	S	AA	AA
	R 1915	VRS-CY1JF274J	RES 0603 270KOHM 5% 1/10W SMD	S	AA	AA
	R 1916	VRS-CY1JF471J	RES 0603 470 OHM 5% 1/10W SMD	S	AA	AA
	R 1917	VRS-CY1JF151J	RES 0603 150 OHM 5% 1/10W SMD	S	AA	AA
	R 1918	VRS-CY1JF750J	S CHIP RESISTOR 75 OHM	S	AA	AA
	R 1919	VRS-CY1JF220J	RES 0603 22 OHM 5% 1/10W SMD	S	AA	AA
	R 1920	VRS-CY1JF104J	RES 0603 100KOHM 5% 1/10W SMD	S	AA	AA
	R 1921	VRS-CY1JF151J	RES 0603 150 OHM 5% 1/10W SMD	S	AA	AA
	R 1922	VRS-CY1JF274J	RES 0603 270KOHM 5% 1/10W SMD	S	AA	AA
	R 1923	VRS-CY1JF471J	RES 0603 470 OHM 5% 1/10W SMD	S	AA	AA
	R 1924	VRS-CY1JF151J	RES 0603 150 OHM 5% 1/10W SMD	S	AA	AA
	R 1925	VRS-CY1JF750J	S CHIP RESISTOR 75 OHM	S	AA	AA
		MISCELLANEOUS PARTS				
	FB 1901	RBLN-0051TAZZ	FERRITE BLM18AG601SN1D-A1 MURATA	S	AA	AA
	FB 1902	RBLN-0051TAZZ	FERRITE BLM18AG601SN1D-A1 MURATA	S	AA	AA
	J 1901	QTANJA070WJZZ	TERMINAL	S	AB	AF
	LUG1901	QLUGHA006WJZZ	METALLIC LUG	S	AA	AB
	P 1901	QPLGN1041CEZZ	PLUG	S	AA	AB
	P 1902	QPLGN0741CEZZ	CONNECTOR B7B-EH	S	AA	AA
	PWB-F		**POWER SUPPLY UNIT**			
⚠		RDENCA101WJZZ	POWER SYPPLY UNIT (LC26GA5E)	J	BG	BY
⚠		RDENCA102WJZZ	POWER SYPPLY UNIT (LC32GA5E)	J	BH	BZ
	PWB-G		**INVERTER UNIT (1)**			
⚠	PWB-G	RUNTKA094WJZZ	INVERTER PSD-0397 (LC26GA5E)	J	AZ	BN
⚠	PWB-G	RUNTKA096WJZZ	INVERTER PSD-0396-A (LC32GA5E)	J	AV	BG
	PWB-H		**INVERTER UNIT (2)**			
⚠	PWB-H	RUNTKA095WJZZ	INVERTER PSD-0398 (LC26GA5E)	J	AM	AY
⚠	PWB-H	RUNTKA097WJZZ	INVERTER PSD-0396-B (LC32GA5E)	J	AV	BG
	PWB-I		**INVERTER UNIT (3)**			
⚠	PWB-I	RUNTKA098WJZZ	INVERTER PSD-0396-C (LC32GA5E)	J	AN	AZ
			MISCELLANEOUS PARTS			
		TCAUHA146WJZZ	ERRATUM SHEET	S	AA	AB

LC-26GA5E CABINET AND MECHANICAL PARTS LISTING

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
1	CCABAA763WJ01	Front Cabinet ass'y	S	BQ	BQ
1-1	Not Available	Front Cabinet	-	-	-
1-2	GCOVAB066WJKA	SP Decoration Cover	J		
1-3	HDECQA471WJSA	R/C LED Decoration Cover	J		
1-5	PSPAHA323WJZZ	Mask Spacer, x2	J	AD	AD
1-6	PSPAHA324WJZZ	Mask Spacer, x2	J	AC	AC
1-7	TLABZA792WJZZ	EICTA Label	J		
		(LC-26GA5E/K/F/I)			
2	CCABBA491WJ01	Rear Cabinet Ass'y	S	BK	BK
2-1	Not Available	Rear Cabinet	-	-	-
2-3	LHLDWA055WJKZ	Wire Holder	J	AC	AC
3	Not Available	Stand Ass'y	-	-	-
3-1	CDAi-A146WJ01	Stand Base Ass'y	S	BQ	BQ
3-1-1	GDAi-A146WJKA	Stand Base	J		
3-1-2	GLEGPA028WJZZ	Rubber Leg, x7	J	AC	AC
3-1-3	LANGKA234WJSA	Base Angle	J	BD	BD
3-1-4	XEBS940P12000	Screw, x2	J	AB	AB
3-1-5	XEBS940P14000	Screw, x11	J	AB	AB
3-2	CHNDPA014WJ02	Stand Handle Ass'y	J		
3-2-1	JHNDPA014WJKA	Stand Handle	J		
3-2-2	GCOVAA713WJSA	Handle Grip	J	AH	AH
3-2-3	GCOVAB019WJKA	Swivel Cover	J		
3-2-4	GDAi-A157WJSA	Stand Support	J		
3-2-5	LANGKA363WJF7	Swivel Base	J		
3-2-6	LX-BZA019WJFN	Screw, x2	J	AB	AB
3-2-7	LX-NZA001WJFN	Nut	J	AD	AD
3-2-8	MHNG-A083WJ01	Swivel Hinge	J		
3-2-9	PSPAZA083WJZZ	Spacer, x2	J	AB	AB
3-2-10	XCSSN50P25000	Screw, x4	J	AB	AB
3-2-11	XUSSN40P25000	Screw, x4	J		
3-3	XCBS950P25000	Screw, x4	J	AC	AC
4	CCOVAB077WJ01	Top Cover Ass'y	S	AN	AN
4-1	Not Available	Top Cover	-	-	-
4-2	JBTN-A254WJKB	Power Button	J	AG	AG
4-3	JBTN-A404WJKA	Operation Button	J		
4-4	MSPRCA015WJFW	Spring, for Power Button	J	AB	AB
4-5	PZETKA119WJZZ	Spacer	J		
4-6	XEBSN30P08000	Screw, x2	J	AA	AA
5	Not Available	26" LCD Panel Unit Ass'y	-	-	-
5-1	RLCDTA034WJZZ	26" LCD Panel Unit	J		
5-2	LHLDZA443WJKZ	Lamp Holder (Top), x2	J	AM	AM
5-3	Not Available	Back Shield Ass'y	-	-	-
5-3-1	PSLDMA553WJFW	Back Shield	J		
5-3-2	LHLDZA444WJKZ	Lamp Holder(Bottom), x2	J	AL	AL
5-3-3	LHLDZA445WJKZ	Lamp Clip, x7	J	AD	AD
5-3-4	PMiR-A054WJZZ	Reflection Mirror	J		
5-3-5	PSPAZA561WJZZ	Spacer, x3	J	AB	AB
5-3-6	TCAUZA031WJZZ	Caution Label	J	AB	AB
5-4	KLMP-A042WJZZ	Fluorescent Lamp, x7	J	AZ	AZ
5-5	PCOVUA026WJZZ	Diffusion Panel	J	BA	BA
5-6	PSHEPA166WJZZ	Diffusion Sheet	J	AS	AS
5-7	PSHEPA236WJZZ	Reflection/deflection Sheet	J	BS	BS
5-8	PSPAHA466WJZZ	Spacer	J		
5-9	PSPAZA535WJZZ	Sheet Spacer-B, x2	J	AM	AM
5-10	PSPAZA536WJZZ	Sheet Spacer-S, x2	J	AH	AH
5-11	XBBS740P08000	Screw, x4	J		
		(for LCD Panel Unit)			
5-12	XBPS730P08JS0	Screw, x2 (for Lamp Holder)	J	AB	AB

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
6	CCOVAB065WJ01	Terminal Cover ass'y	S	AP	AP
6-1	Not Available	Terminal Cover	-	-	-
6-2	PSPAHA413WJZZ	Spacer, x1	J	AB	AB
7	GCOVAB018WJKB	BUS Connector Cover	S	AE	AE
8	LANGKA259WJFW	Reinforcement Angle(Bottom)	J	AG	AG
9	LANGTA146WJFW	VESA Angle	J		
10	LCHSMA161WJKA	Chassia Frame	J		
11	LHLDW1046CEZZ	Wire Holder, x2	J		
12	LHLDW1173CEZZ	Wire Holder	J	AD	AD
14	LHLDWA048WJKZ	Wire Holder, x1	J	AB	AB
15	LX-BZ3442CEF9	Screw, x4 (for Stand)	J	AB	AB
16	PFLT-A051WJZZ	LCD Conductive Spacer	J		
17	PFLT-A052WJZZ	LCD Conductive Spacer-L	J		
18	PFLT-A053WJZZ	LCD Conductive Spacer-R	J		
19	PMLT-A132WJZZ	Gasket	J	AH	AH
20	PMLT-A179WJZZ	Gasket, x3 (for Main Unit)	J		
21	PRDARA187WJFW	Heat Sink	J		
22	PRDARA173WJFW	Heat Sink	J		
23	PSLDMA538WJFW	Shield Spacer	J		
24	PSLDMA568WJFW	Shield	J		
25	PSPAGA243WJZZ	Inverter Cushion	J		
26	PSPAZA567WJKZ	Spacer	J		
27	PSPAZA568WJKZ	Spacer	J		
28	RSP-ZA096WJZZ	Speaker Box(L)	J		
29	RSP-ZA097WJZZ	Speaker Box(R)	J		
30	LX-HZA003WJFN	Screw, x2 (for Speaker Box)	J	AC	AC
31	DUNTKC656WE03	MAIN Unit	J		
32	DUNTKC864WE03	OPERATION Unit	J		
33	DUNTKC865WE03	R/C LED Unit	J		
34	DUNTKC919FE01	LCD CONTROLLER Unit	J		
35	DUNTKC920WE01	COMPONENT Unit	J		
36	RUNTKA094WJZZ	INVERTER Unit	J	BK	BK
37	RUNTKA095WJZZ	INVERTER-GND Unit	J	AW	AW
38	RDENCA101WJZZ	POWER Unit	J		
39	LX-BZ3370CEF7	Screw, x5	J		
40	QCNW-D041WJQZ	Connecting Cord(PO)	J		
41	QCNW-D042WJQZ	Connecting Cord(RA)	J		
42	QCNW-D043WJQZ	Connecting Cord(SP)	J		
43	QCNW-D044WJPZ	Connecting Cord(YU)	J		
44	QCNW-D045WJQZ	Connecting Cord(GV)	J		
45	QCNW-D046WJQZ	Connecting Cord(KE)	J		
46	QCNW-D047WJQZ	Connecting Cord(PA)	J		
47	QCNW-D049WJQZ	Connecting Cord(SH)	J		
48	QCNW-D050WJQZ	FFC(LV)	J		
49	QCNW-D295WJPZ	Connecting Cord(UV)	J		
50	QPWBMD146WJPZ	FPC, x2 (with Copper)	J		
51	QEARPA149WJFW	Tuner Earth Angle	J		
52	RCORF0103CEZZ	Core (for Speaker)	J	AK	AK
53	RCORFA023WJZZ	Core, x3 (for GV,SH,RA)	J	AK	AK
54	RCORFA039WJZZ	Core, x2 (for FPC)	J	AG	AG
55	XBBS930P06000	Screw, x2	J	AA	AA
56	XBPS730P04WS0	Screw, x5	J		
57	XBPS730P08WS0	Screw, x28	J		
58	XEBS930P08000	Screw, x6	J	AA	AA
59	XEBS940P16000	Screw, x13 (for Cabinet-B)	J	AB	AB
60	XEBSN30P08000	Screw, x6	J	AA	AA
61	XEBSN40P10000	Screw, x4 (for Stand)	J	AB	AB
62	Not Available	Serial No. Label	-	-	-
63	TLABSA052WJZZ	Label	J		
		(LC-26GA5R)			
64	PCOVUA057WJZZ	LED Shading Cover	J		
65	HiNDPB194WJSA	Model Label	J		
		(LC-26GA5E/K/F/R)			
65	HiNDPB195WJSA	Model Label (LC-26GA5I)	J		
66	LHLDW0110CEZZ	Wire Holder	J		

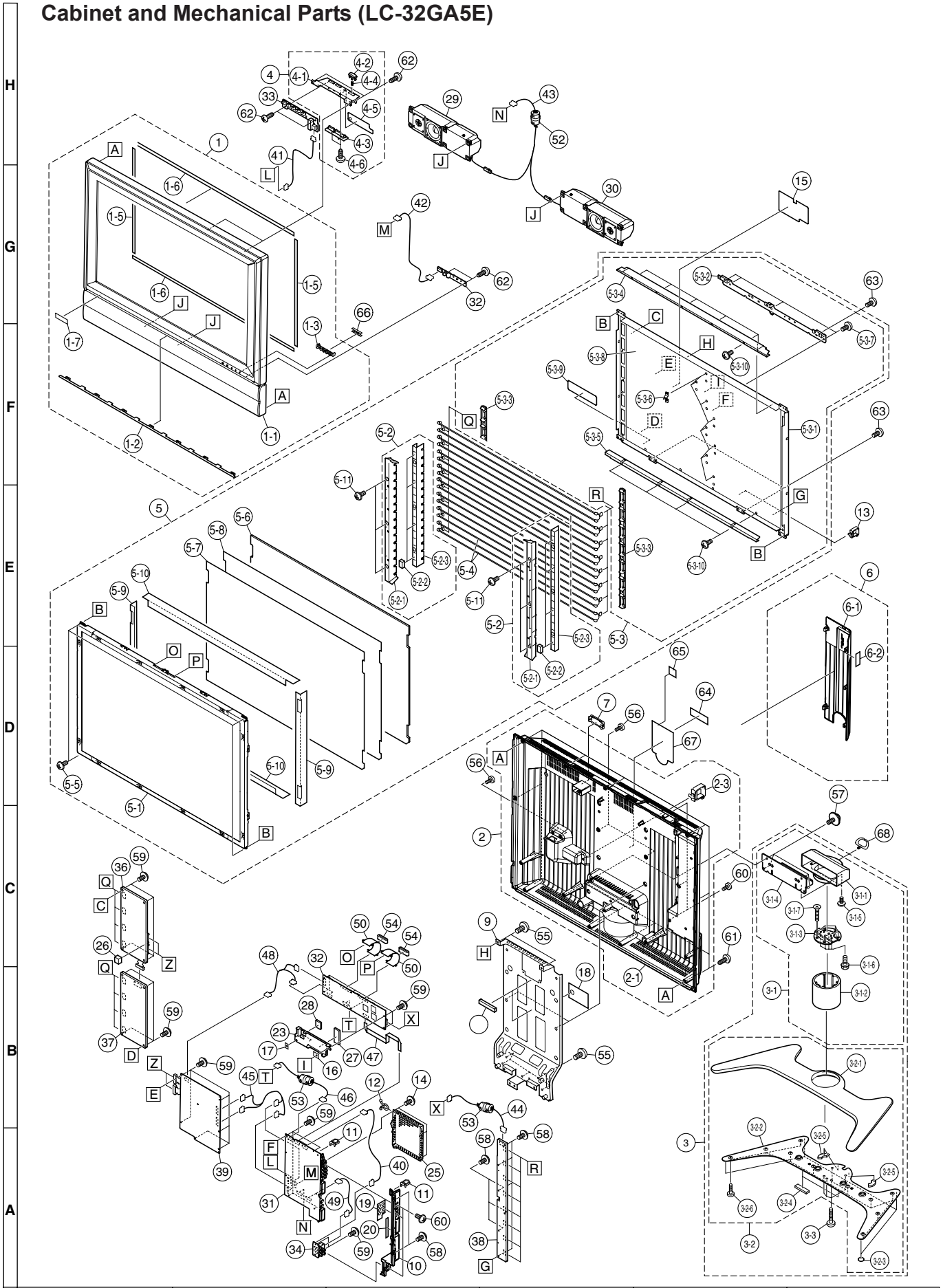
Cabinet and Mechanical Parts (LC-26GA5E)



LC-32GA5E CABINET AND MECHANICAL PARTS LISTING

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
1	CCABAA760WJ01	Front Cabinet Ass'y	S	BT	BT
1-1	Not Available	Front Cabinet	-	-	-
1-2	GCOVAB063WJKA	SP Decoration Cover	J		
1-3	HDECQA471WJSA	R/C LED Decoration Cover	J		
1-5	PSPAHA298WJZZ	Mask Spacer, x2	J	AC	AC
1-6	PSPAHA407WJZZ	Mask Spacer, x2	J	AD	AD
1-7	TLABZA792WJZZ	EICTA Label	J		
		(LC-32GA5E/K/F/I)			
2	CCABBA490WJ01	Rear Cabinet Ass'y	S	BM	BM
2-1	Not Available	Rear Cabinet	-	-	-
2-3	LHLDWA055WJKZ	Wire Holder (for AC Cord)	J	AC	AC
3	Not Available	Stand Ass'y	-	-	-
3-1	CCOVAB012WJ05	Stand Hinge ass'y	S	BP	BP
3-1-1	GCOVAB012WJKA	Stand Hinge	J		
3-1-2	GDAi-A155WJKA	Stand Support	J		
3-1-3	GDAi-A160WJF7	Support Cover	J		
3-1-4	LANGTA156WJSA	Stand Bracket	J		
3-1-5	LX-BZA046WJFN	Screw, x2	J	AA	AA
3-1-6	LX-BZA091WJF7	Screw, x4	J		
3-1-7	XCSS940P25000	Screw, x5	J	AB	AB
3-2	CDAi-A147WJ01	Stand Base Ass'y	S	BV	BV
3-2-1	GDAi-A147WJKA	Stand Base	J		
3-2-2	LANGKA282WJSA	Base Angle	J	BF	BF
3-2-3	PSPAZA476WJZZ	Leg Spacer-A, x4	J	AC	AC
3-2-4	PSPAZA477WJZZ	Leg Spacer-B, x2	J	AD	AD
3-2-5	PSPAZA530WJZZ	Leg Spacer-C, x2	J	AD	AD
3-2-6	XEBS940P10000	Screw, x10	J	AB	AB
3-3	XCBS940P25000	Screw, x5	J	AB	AB
4	CCOVAB077WJ01	Top Cover ass'y	S	AN	AN
4-1	Not Available	Top Cover	-	-	-
4-2	JBTN-A254WJKB	Power Button	J	AG	AG
4-3	JBTN-A404WJKA	Operation Button	J		
4-4	MSPRCA015WJFW	Spring, for Power Button	J	AB	AB
4-5	PZETKA119WJZZ	Spacer	J		
4-6	XEBSN30P08000	Screw, x2	J	AA	AA
5	Not Available	32" LCD Panel Unit Ass'y	-	-	-
5-1	RLCDTA028WJZZ	32" LCD Panel Unit	J		
5-2	CHLDZA446WJ01	Lamp Holder (Top) Ass'y, x2	J	AN	AN
5-2-1	LHLDZA446WJKZ	Lamp Holder (Top)	J	AK	AK
5-2-2	PSPAGA251WJZZ	Spacer, x4	J	AA	AA
5-2-3	PSPAKA064WJZZ	Spacer	J		
5-3	Not Available	Back Shield Ass'y	-	-	-
5-3-1	PSLDMA552WJZZ	Back Shield	J		
5-3-2	LANGKA395WJFW	Fixing Angle	J		
5-3-3	LHLDZA309WJK0	Lamp Holder (Bottom)	J	AL	AL
5-3-4	LHLDZA476WJKZ	Reflection mirror Fixing	J	AQ	AQ
		Holder(Top)			
5-3-5	LHLDZA477WJKZ	Reflection mirror Fixing	J	AP	AP
		Holder(Bottom)			
5-3-6	LHLDZA483WJKZ	Lamp Clip, x8	J		
5-3-7	LX-BZA046WJFN	Screw, x5	J	AA	AA
5-3-8	PMiR-A057WJZZ	Reflection Mirror	J	AQ	AQ
5-3-9	TCAUZA031WJZZ	Caution Label	J	AB	AB
5-3-10	XBBSN30P08000	Screw, x9	J	AA	AA
5-4	KLMP-A040WJZZ	Fluorescent Lamp, x8	J	AZ	AZ
5-5	LX-BZA051WJFN	Screw, x4	J	AB	AB
5-6	PCOVUA052WJZZ	Diffusion Panel	J		
5-7	PSHEPA244WJZZ	Reflection/Deflection Sheet	J	BU	BU
5-8	PSHEPA256WJZZ	Diffusion Sheet	J	AU	AU
5-9	PSPAKA088WJZZ	Sheet Spacer-S, x2	J	AH	AH
5-10	PSPAKA089WJZZ	Sheet Spacer-L, x2	J	AK	AK
5-11	XBBSN30P08000	Screw, x6	J	AA	AA
6	CCOVAB062WJ01	Terminal Cover ass'y	S	AP	AP
6-1	Not Available	Terminal Cover	-	-	-
6-2	PSPAHA413WJZZ	Spacer, x1	J	AB	AB
7	GCOVAB018WJKB	BUS CON Cover	S	AE	AE
9	LANGTA149WJZZ	Center Angle	J		
10	LCHSMA161WJKA	Chassis Frame	J		
11	LHLDWA048WJKZ	Wire Holder, x3	J	AB	AB
		(for MAIN Unit x2, Inverter-Earth)			
12	LHLDW1046CEZZ	Wire Holder, x2	J	AA	AA
		(for MAIN Unit)			
13	LHLDW1173CEZZ	Wire Holder (for Back Shield)	J	AD	AD
14	LX-BZ3370CEF7	Screw, x5	J		
15	PFLT-A051WJZZ	LCD Conductive	J		
16	PFLT-A052WJZZ	LCD Conductive-L	J		
17	PFLT-A053WJZZ	LCD Conductive-R	J		
18	PFLT-A054WJZZ	Felt	J		
19	PMLT-A194WJZZ	Absorber	J		
20	PMLT-A195WJZZ	Absorber	J		
21	PMLT-A179WJZZ	Gasket, x3 (for Main)	J		
22	PRDARA173WJFW	Heat Sink	J		
23	PRDARA187WJFW	Heat Sink	J		
24	PSLDMA538WJFW	Gasket Shield	J		
25	PSLDMA568WJFW	Shield	J		
26	PSPAGA243WJZZ	Spacer	J		
27	PSPAZA567WJKZ	Spacer	J		
28	PSPAZA568WJKZ	Spacer	J		
29	RSP-ZA096WJZZ	Speaker Box (L)	J		
30	RSP-ZA097WJZZ	Speaker Box (R)	J		
31	DUNTKC656WE08	MAIN Unit	J		
32	DUNTKC864WE08	OPERATION Unit	J		
33	DUNTKC865WE08	R/C LED Unit	J		
34	DUNTKC920WE01	COMPONENT Unit	J		
35	DUNTKC919FE02	LCD CONTROLLER Unit	J		
36	RUNTKA096WJZZ	INVERTER A Unit	J		
37	RUNTKA097WJZZ	INVERTER B Unit	J		
38	RUNTKA098WJZZ	INVERTER GND Unit	J		
39	RDENCA102WJZZ	POWER Unit	J		
40	QCNW-D044WJPZ	Connecting Cord(YU)	J		
41	QCNW-D046WJQZ	Connecting Cord(KE)	J		
42	QCNW-D058WJQZ	Connecting Cord(RA)	J		
43	QCNW-D059WJQZ	Connecting Cord(SP)	J		
44	QCNW-D060WJQZ	Connecting Cord(GV)	J		
45	QCNW-D061WJQZ	Connecting Cord(PA)	J		
46	QCNW-D063WJQZ	Connecting Cord(SH)	J		
47	QCNW-D064WJQZ	FFC (LV)	J		
48	QCNW-D249WJQZ	Connecting Cord(PO)	J		
49	QCNW-D295WJPZ	Connecting Cord(UV)	J		
50	QPWBMD146WJPZ	FPC, x2 (with Copper)	J		
51	QEARPA149WJFW	Tuner Earth Angle	J		
52	RCORF0103CEZZ	Core (for Speaker)	J	AK	AK
53	RCORFA023WJZZ	Core, x3 (for GV,SH,RA)	J	AK	AK
54	RCORFA039WJZZ	Core, x2 (for FPC)	J	AG	AG
55	XBBS740P06000	Screw, x7 (for Center Angle)	J	AA	AA
56	XBBS930P06000	Screw, x4	J	AA	AA
57	XBBSN50P12JS0	Screw, x4 (for Stand)	J	AF	AF
58	XBPS730P04WS0	Screw, x8	J		
59	XBPS730P08WS0	Screw, x26	J		
60	XEBS930P08000	Screw, x6	J	AA	AA
61	XEBS940P16000	Screw, x15 (for Cabinet A)	J	AB	AB
62	XEBSN30P08000	Screw, x6	J	AA	AA
63	XEBSN40P10000	Screw, x3	J	AB	AB
64	Not Available	Serial No. Label	-	-	-
65	TLABSA052WJZZ	Label	J		
		(LC-32GA5R)			
66	PCOVUA057WJZZ	Shading Cover	J		
67	HiNDPB197WJSA	Model Label	J		
		(LC-32GA5E/K/F/R)			
67	HiNDPB198WJSA	Model Label (LC-32GA5I)	J		
68	LHLDW0110CEZZ	Wire Holder	J		

Cabinet and Mechanical Parts (LC-32GA5E)

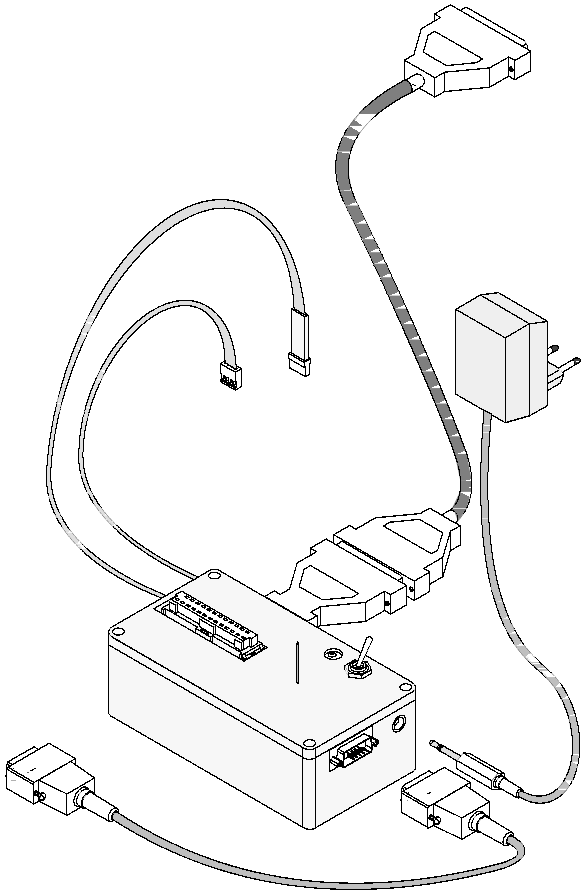


LC-26GA5E SERVICE TOOLS

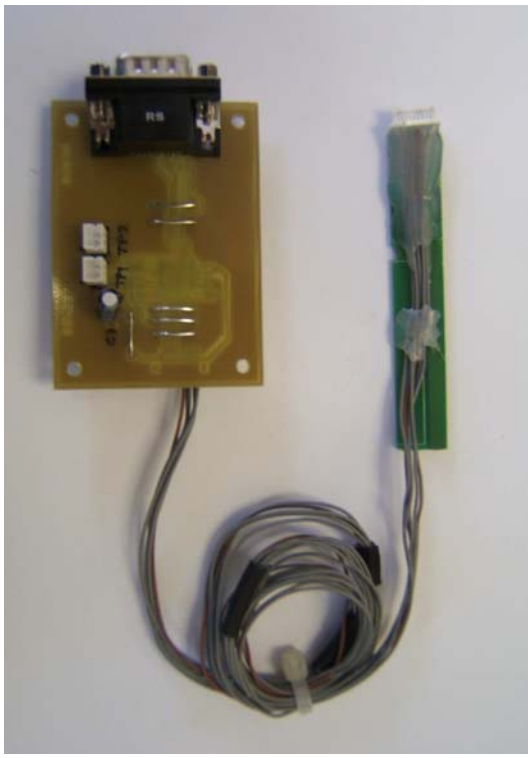
	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
		CKIT-0002WJV0	SET GA-5 VCTi, PW SOFT UPDATING TOOL	-	**	**
		CKIT-0003WJV0	GA-5 QS SOFT UPDATING TOOL	-	**	**

LC-32GA5E SERVICE TOOLS

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
		CKIT-0002WJV0	SET GA-5 VCTi, PW SOFT UPDATING TOOL	-	**	**
		CKIT-0003WJV0	GA-5 QS SOFT UPDATING TOOL	-	**	**



CKIT-0002WJV0



CKIT-0003WJV0

LC-26GA5E SUPPLIED ACCESSORIES PARTS LISTING

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
⚠	X1	QACCBA021WJPZ	AC Cord (LC-26GA5K)	J	AS	AS
⚠	X1	QACCKA007WJPZ	AC Cord (LC-26GA5E/F/I/R)	J	AK	AK
	X2	RRMCGA323WJSA	Remote Control Unit	J		
	X3	LHLDW0110CEZZ	Cable Clamp	J	AE	AE
	X4	RCORFA020WJZZ	Core, for AC Cord	J	AN	AN
	X5	TiNS-B568WJZZ	Operation Manual	J		
			(LC-26GA5E/K/F/I)			
	X5	TiNS-B569WJZZ	Operation Manual	J		
			(LC-26GA5E/F)			
	X5	TiNS-B570WJZZ	Operation Manual	J		
			(LC-26GA5E)			
	X5	TiNS-B571WJZZ	Operation Manual	J		
			(LC-26GA5R)			
	X6	TGAN-1688CEN1	Guarrantee card	J		
			(LC-26GA5K)			
	X6	TGAN-A077WJZZ	Guarrantee card	J		
			(LC-26GA5R)			
	X7	LHLDWA083WJ00	Cable Tie	J		
	X8	SSAKAA009WJZZ	Polyethylene Bag	J		
	X9	SSAKAA010WJZZ	Polyethylene Bag	J		
	X10	TCAUSA017WJZZ	DOC	J		
	X11	TCAUZA173WJZZ	Errata Sheet	J		

LC-32GA5E SUPPLIED ACCESSORIES PARTS LISTING

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
⚠	X1	QACCBA021WJPZ	AC Cord (LC-32GA5K)	J	AS	AS
⚠	X1	QACCKA007WJPZ	AC Cord (LC-32GA5E/F/I/R)	J	AK	AK
	X2	RRMCGA323WJSA	Remote Control Unit	J		
	X3	LHLDW0110CEZZ	Cable Clamp	J	AE	AE
	X4	RCORFA020WJZZ	Core (for AC Cord)	J	AN	AN
	X5	TiNS-B568WJZZ	Operation Manual	J		
			(LC-32GA5E/K/FI)			
	X5	TiNS-B569WJZZ	Operation manual	J		
			(LC-32GA5E/F)			
	X5	TiNS-B570WJZZ	Operation Manual	J		
			(LC-32GA5E)			
	X5	TiNS-B571WJZZ	Operation Manual	J		
			(LC-32GA5R)			
	X6	TGAN-1688CEN1	Guarrantee card	J		
			(LC-32GA5K)			
	X6	TGAN-A077WJZZ	Guarrantee card	J		
			(LC-32GA5R)			
	X7	LHLDWA083WJ00	Cable Band	J		
	X8	SSAKAA009WJZZ	Polyethylene Bag	J		
	X9	SSAKAA010WJZZ	Polyethylene Bag	J		
	X10	TCAUSA017WJZZ	DOC	J		
	X11	TCAUZA173WJZZ	Errata Sheet	J		

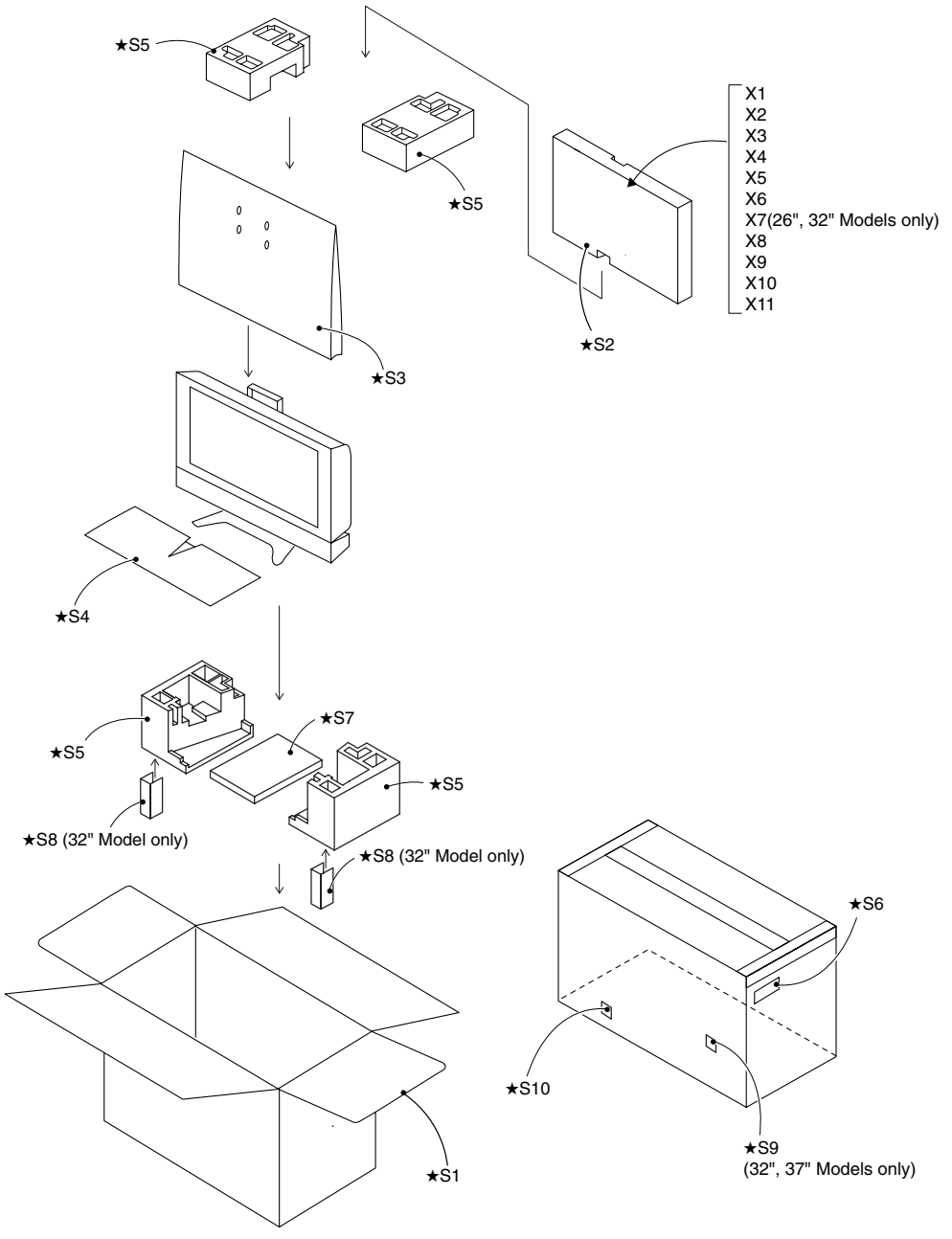
LC-32GA5E PACKING PARTS LISTING

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	S1	SPAKCB736WJZZ	Packing Case	-		
	S2	SPAKFA784WJZZ	Accessory Box	-	-	-
	S3	SPAKPA382WJZZ	Wrapping Paper (Display)	-	-	-
	S4	SPAKPA377WJZZ	Wrapping Paper (Stand)	-	-	-
	S5	SPAKXA682WJZZ	Pad	-	-	-
	S6	TLABKA002WJZZ	No. Label	-	-	-
	S7	SPAKFA781WJZZ	Buffer Material (for Stand)	-	-	-
	S8	SPAKFA782WJZZ	Buffer Material (Bottom)	-	-	-
	S9	TLABSA050WJZZ	Green Label	-	-	-
			(LC-32GA5F)			
	S10	TLABSA053WJZZ	Gost Label	-	-	-
			(LC-32GA5R)			
		TLABN0134BMZZ	SEES No. Label	-	-	-

LC-32GA5E PACKING PARTS LISTING

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	S1	SPAKCB736WJZZ	Packing Case	-		
	S2	SPAKFA784WJZZ	Accessory Box	-	-	-
	S3	SPAKPA382WJZZ	Wrapping Paper (Display)	-	-	-
	S4	SPAKPA377WJZZ	Wrapping Paper (Stand)	-	-	-
	S5	SPAKXA682WJZZ	Pad	-	-	-
	S6	TLABKA002WJZZ	No. Label	-	-	-
	S7	SPAKFA781WJZZ	Buffer Material (for Stand)	-	-	-
	S8	SPAKFA782WJZZ	Buffer Material (Bottom)	-	-	-
	S9	TLABSA050WJZZ	Green Label	-	-	-
			(LC-32GA5F)			
	S10	TLABSA053WJZZ	Gost Label	-	-	-
			(LC-32GA5R)			
		TLABN0134BMZZ	SEES No. Label	-	-	-

PACKING OF THE SET



★ Not Replacement item

SOURCE OF DOCUMENTATION

1. IC1001, VCT 49XYI.

MICRONAS Data Sheet, Adavance Information
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